

FIG. 3.
SUBSTITUTE SHEET (RULE 26)

3/38

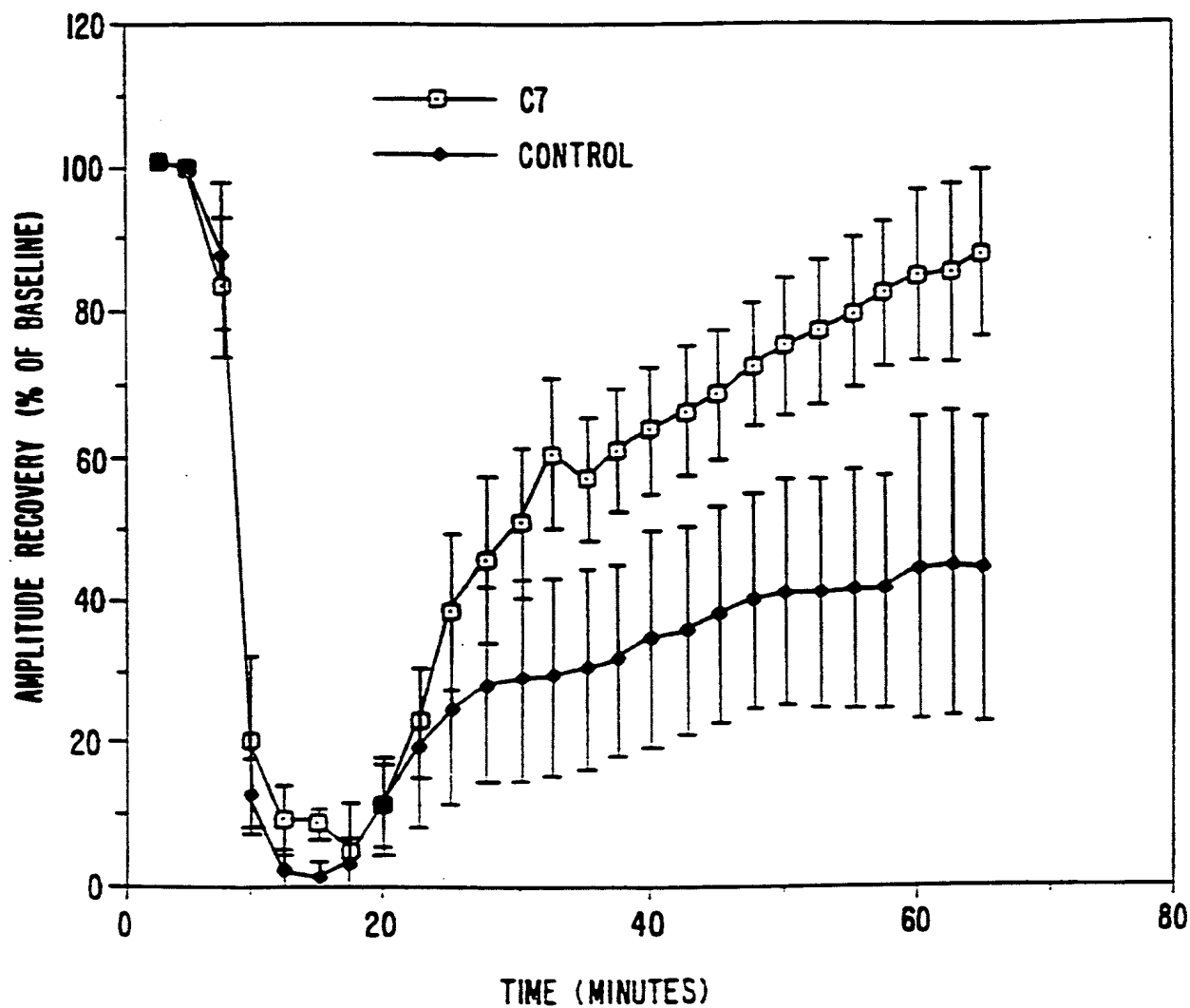


FIG. 5.

4/38

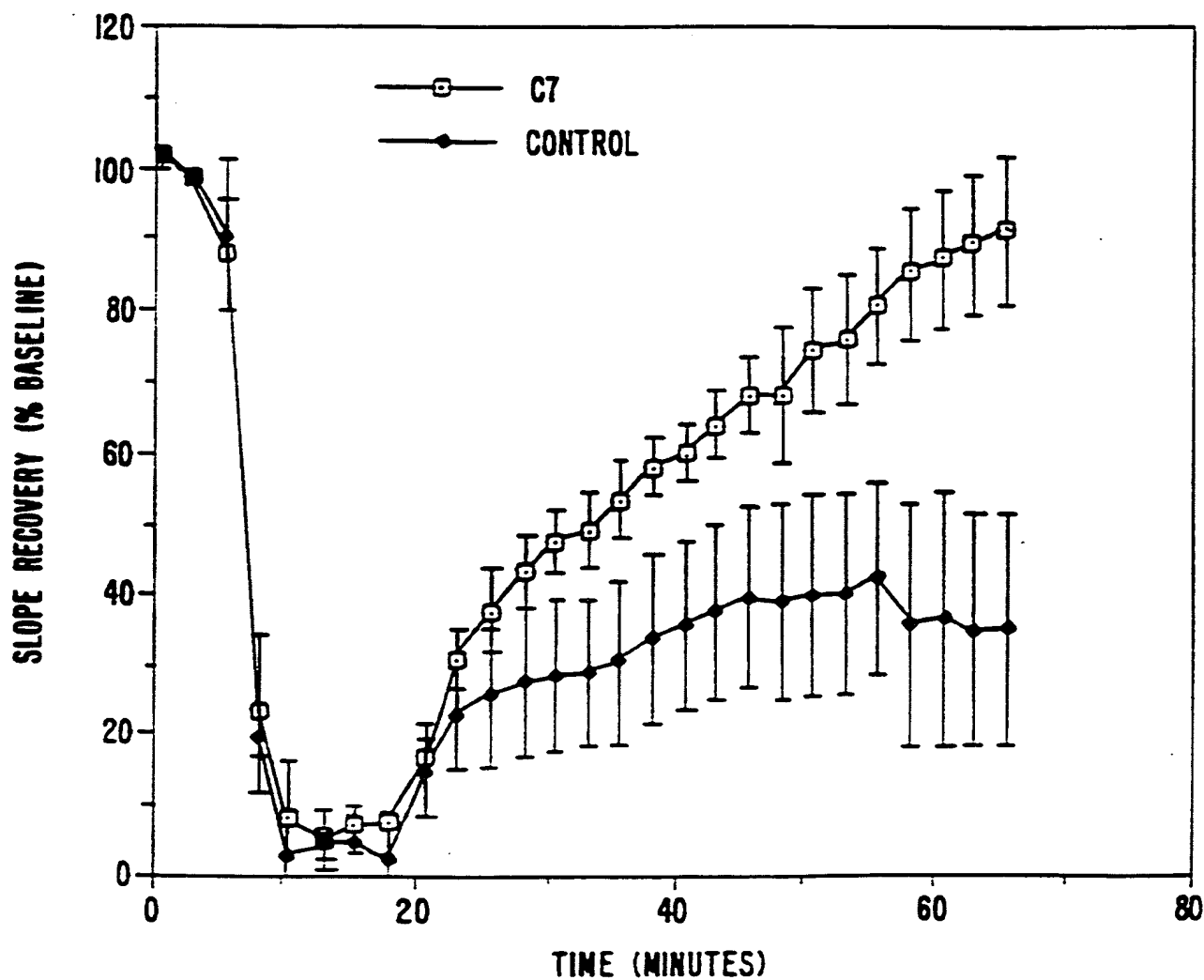


FIG. 6.

5/38

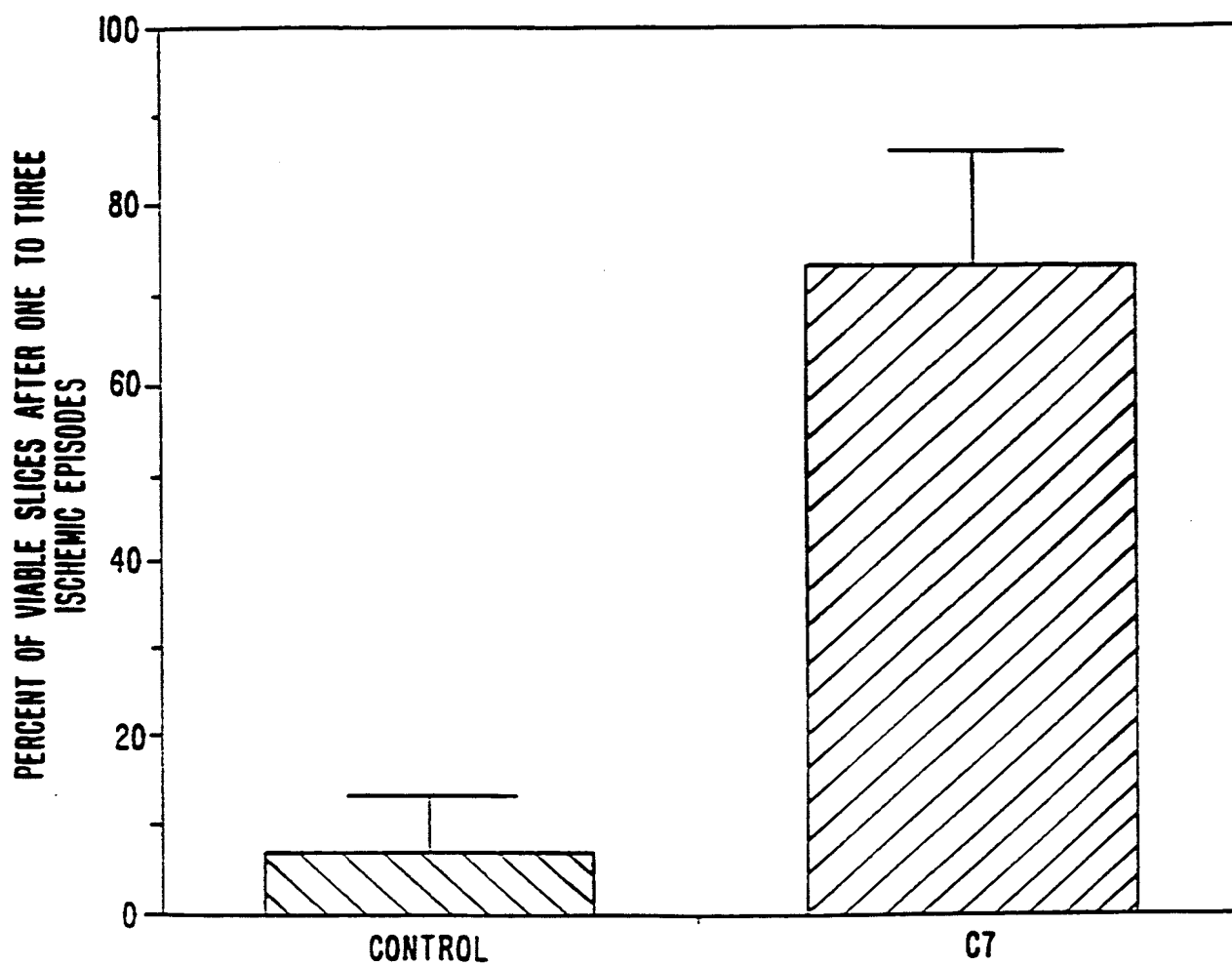


FIG. 7.

6/38

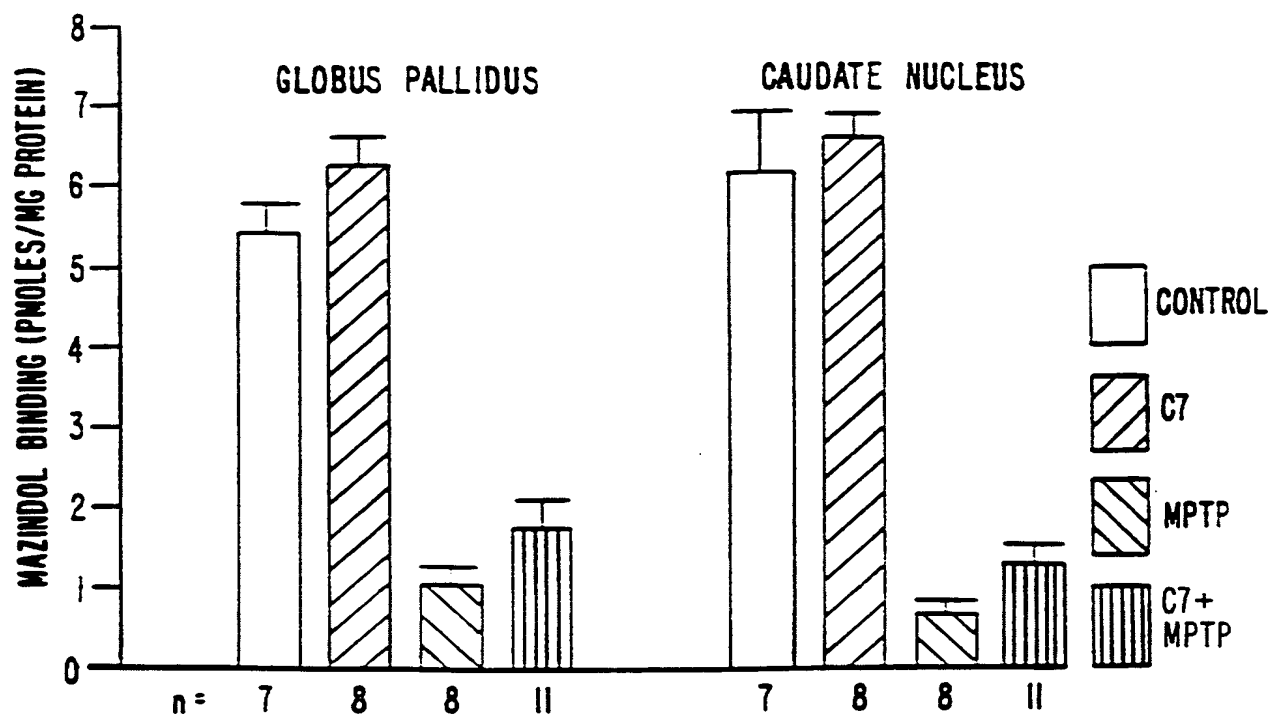


FIG. 8A.

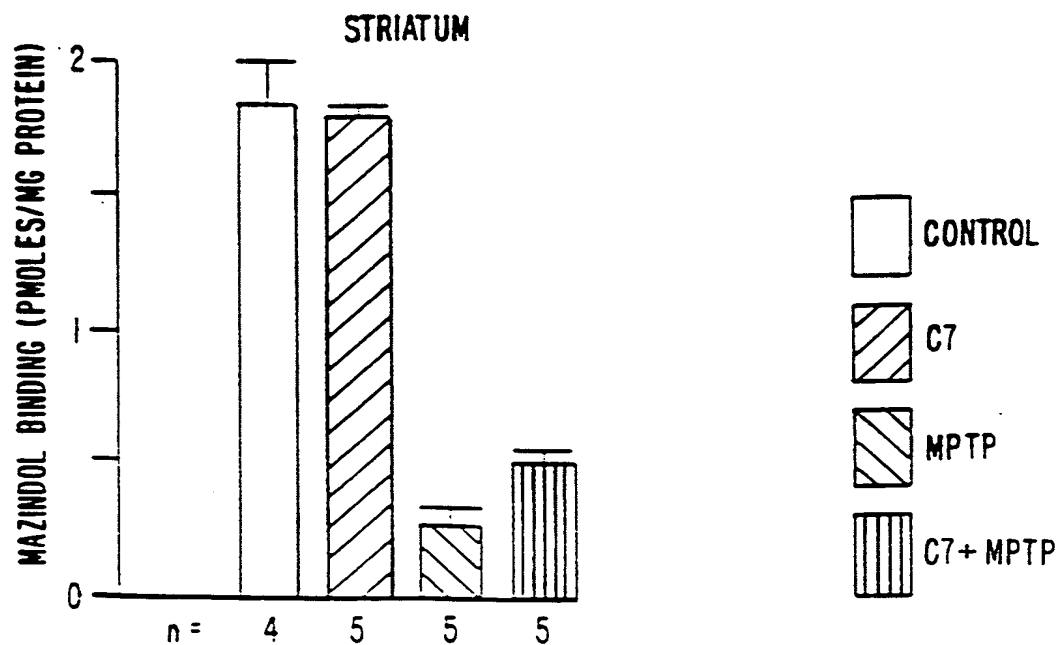


FIG. 8B.

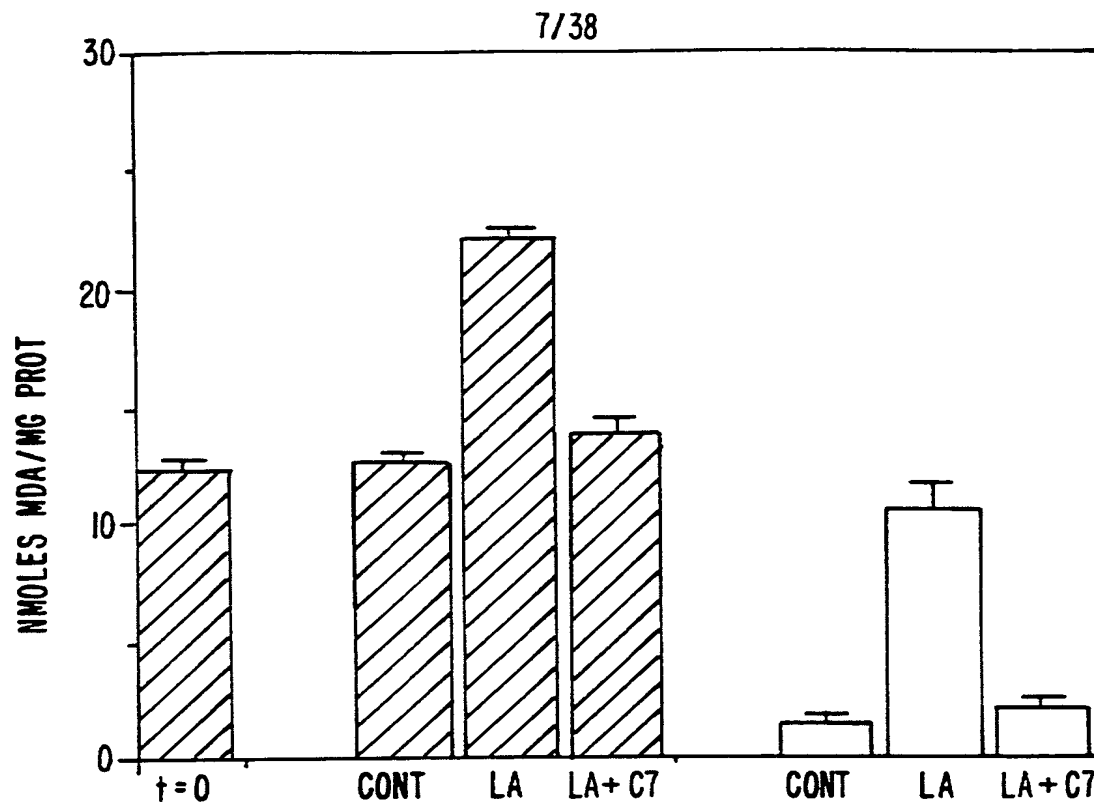


FIG. 9.

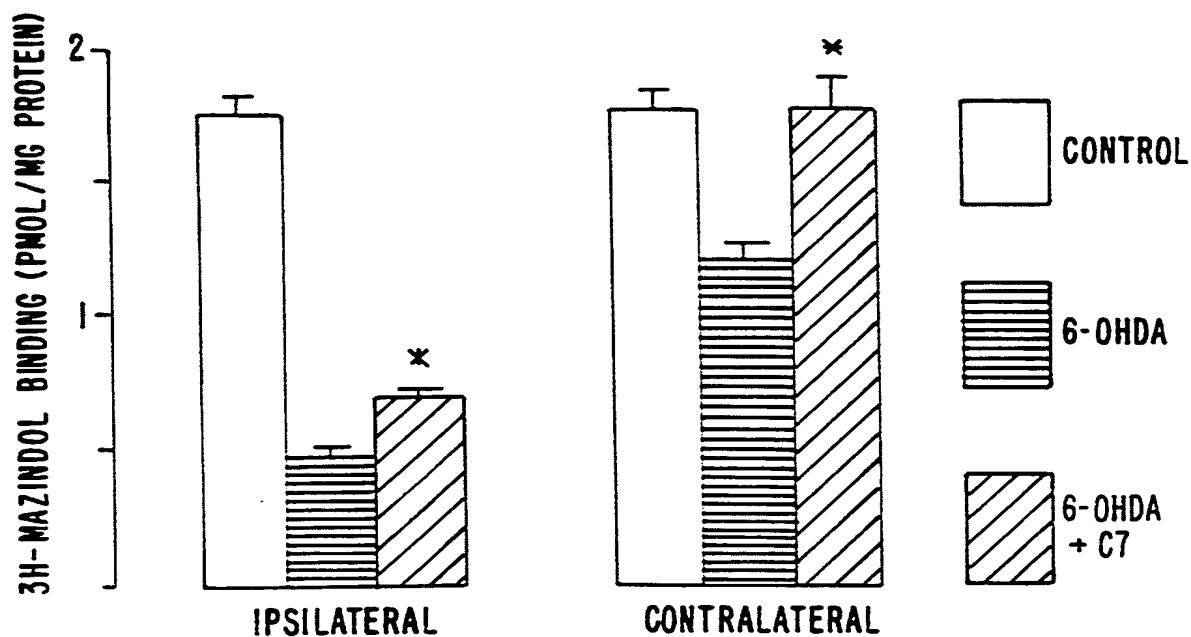


FIG. 10.

8/38

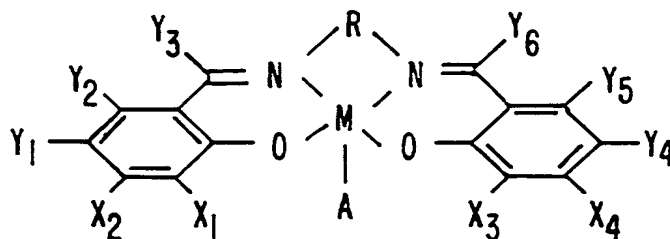


FIG. IIA.

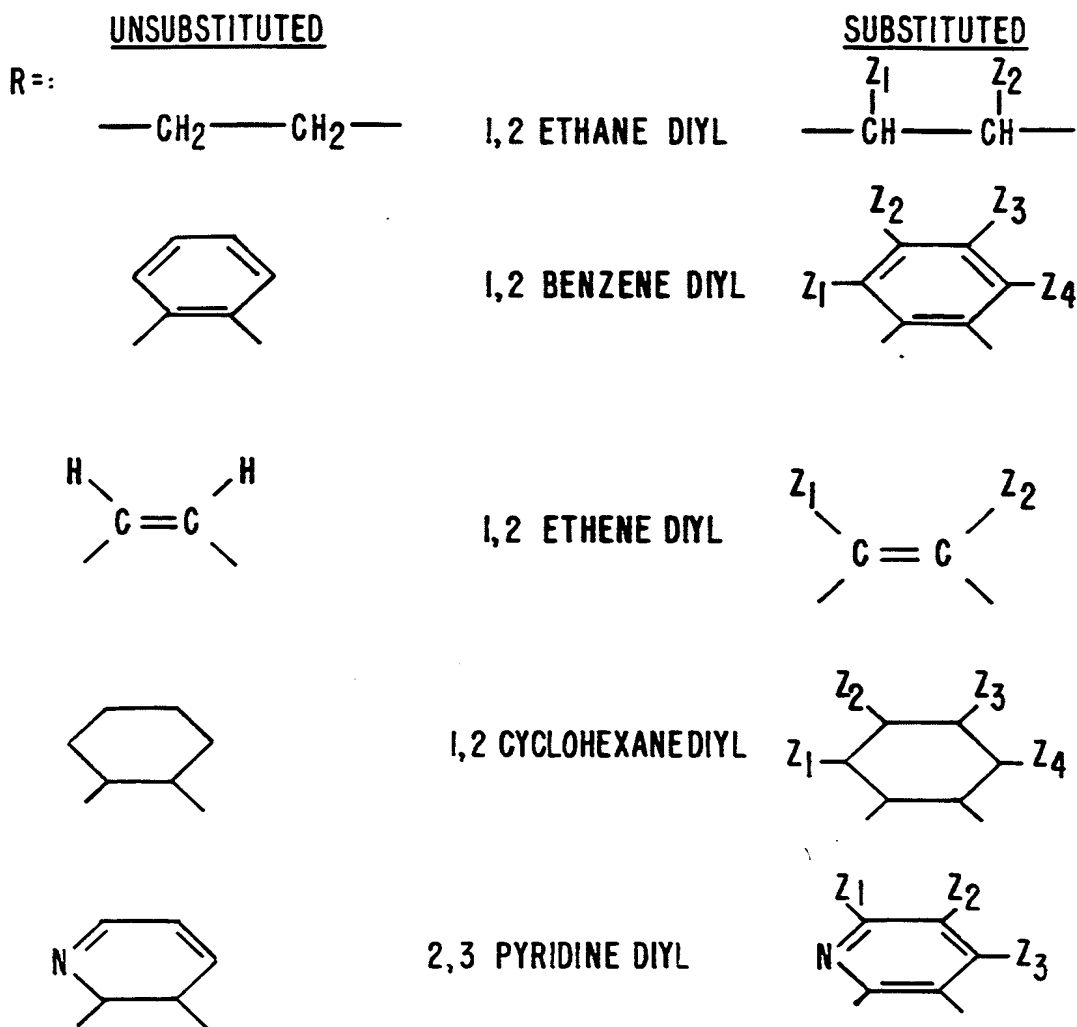
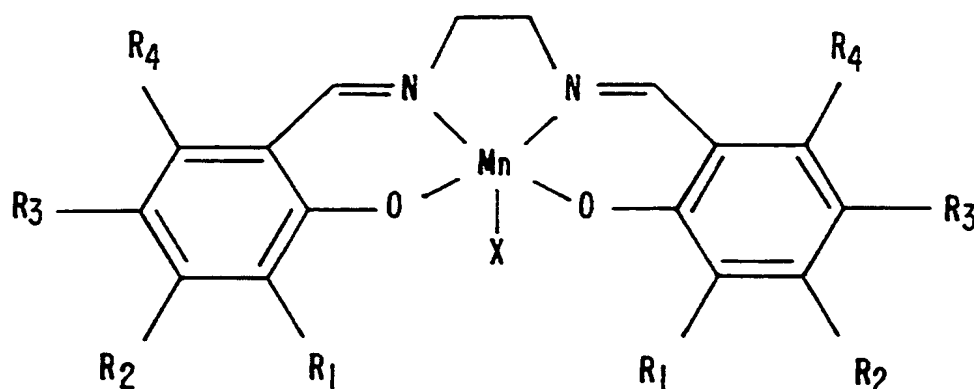


FIG. IIB.

9/38

*FIG. 12A.*

	R ₁	R ₂	R ₃	R ₄	X
C7	H	H	H	H	Cl
C31	H	H	H	H	OAc
C36	F	H	H	H	OAc
C37	F	H	H	H	Cl
C41	H	H	OMe	H	Cl
C38	H	H	OMe	H	OAc
C32	OMe	H	H	H	OAc
C40	OMe	H	H	H	Cl
C35	H	OMe	H	OMe	OAc
C39	H	OMe	H	OMe	Cl
C33	H	OMe	H	H	OAc
C34	H	OMe	H	H	Cl

FIG. 12B.

10/38

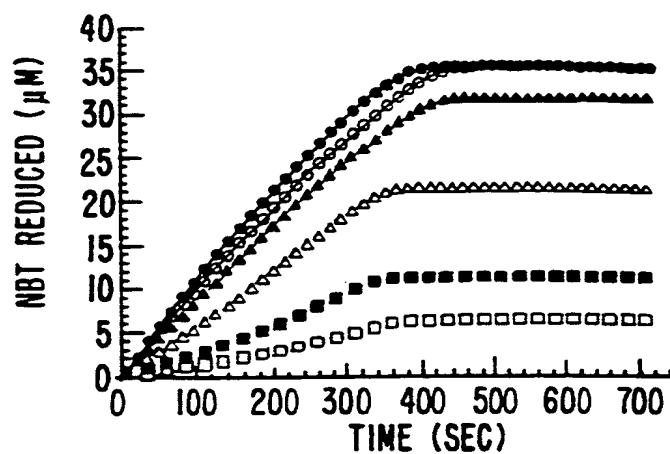


FIG. 13A.

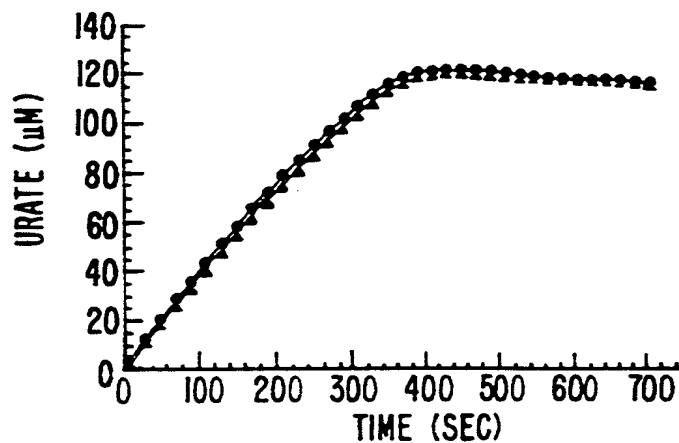


FIG. 13B.

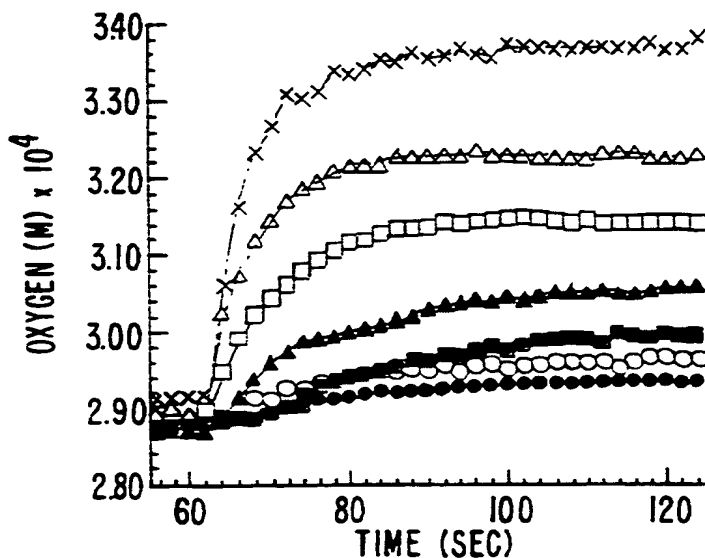


FIG. 14.

11/38

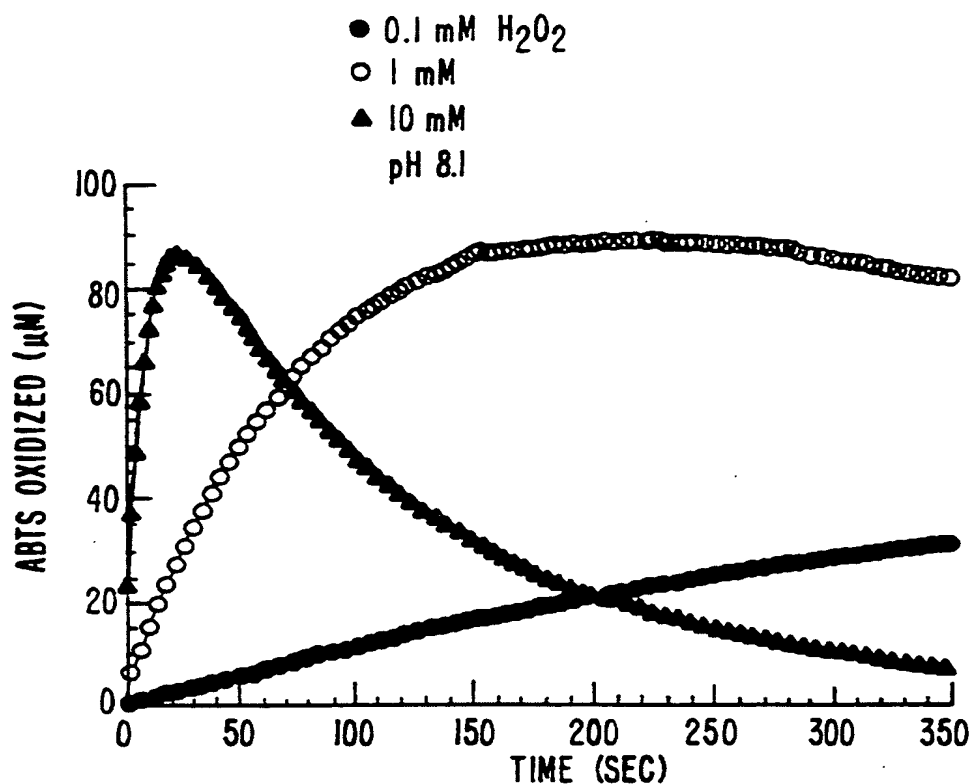


FIG. 15A.

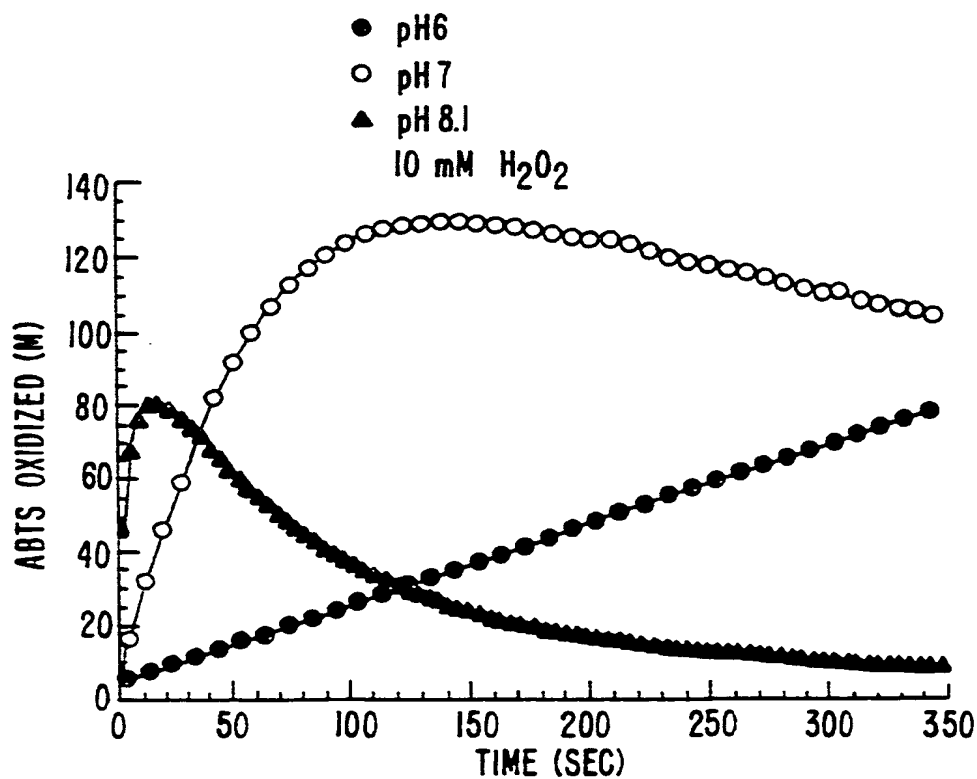


FIG. 15B.

12/38

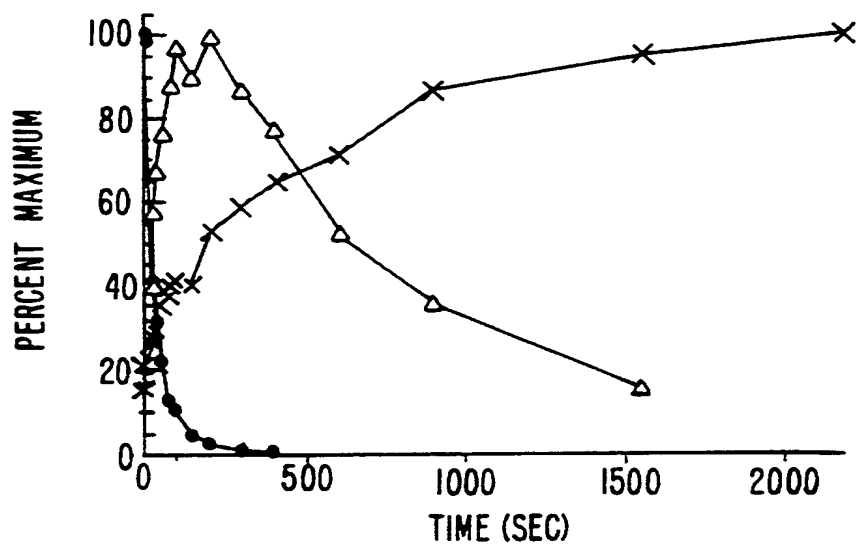


FIG. 16A.

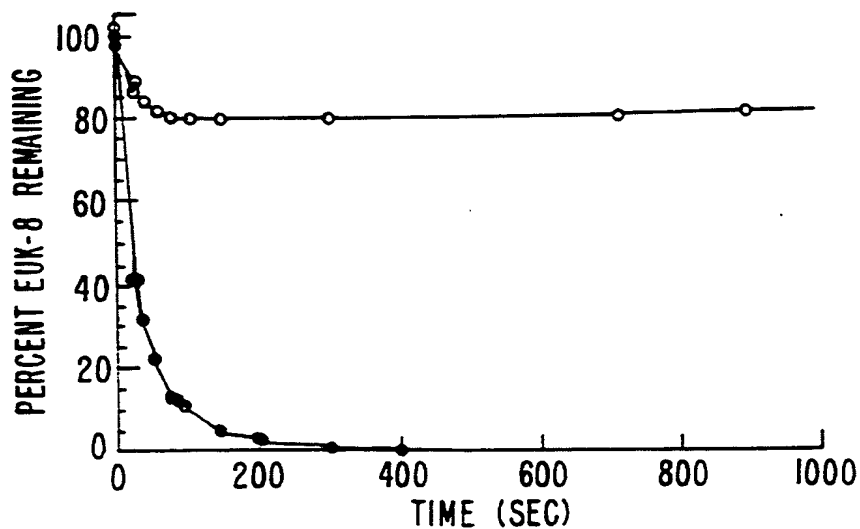


FIG. 16B.

09/029686

13/38

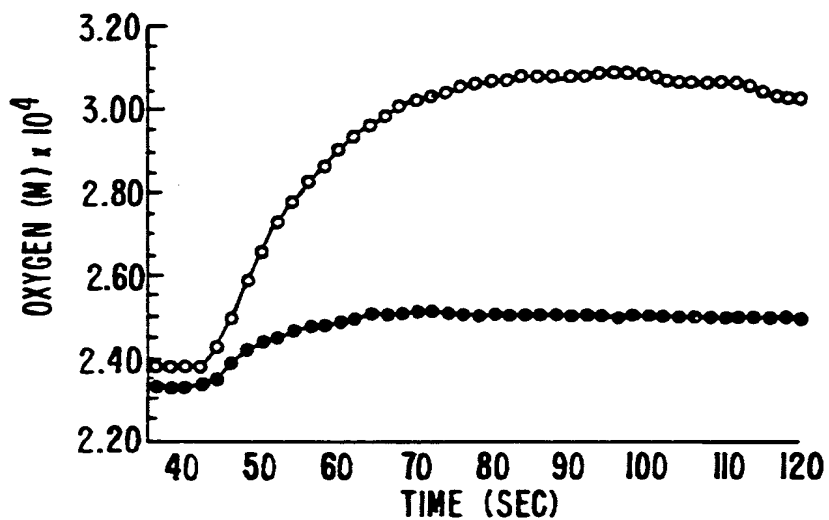


FIG. 17.

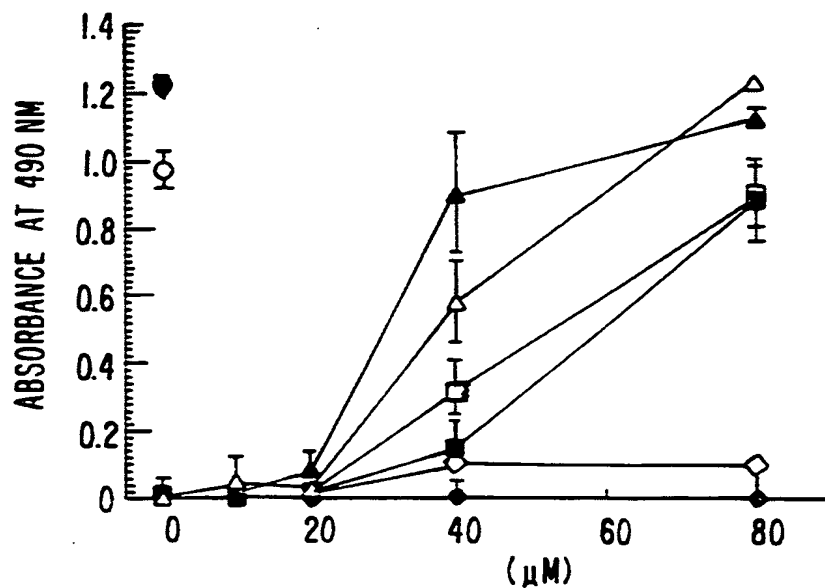


FIG. 18.

14/38

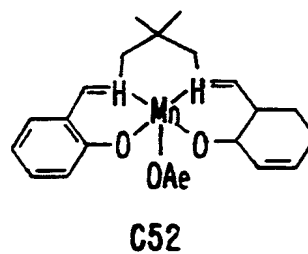
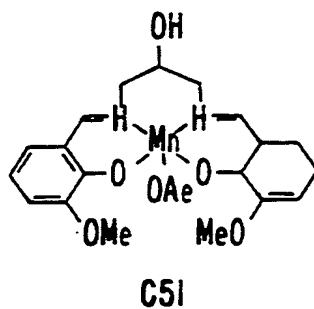
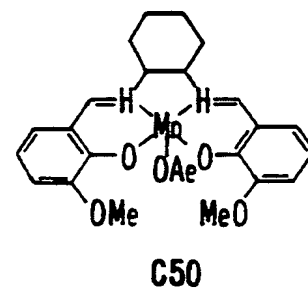
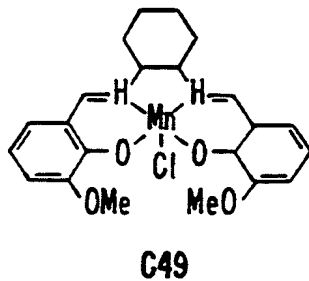
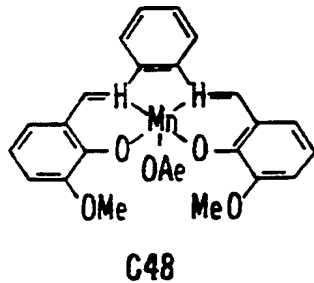
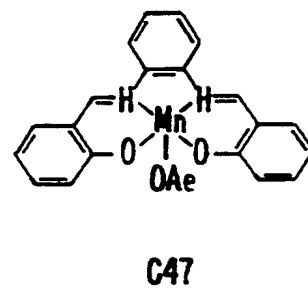
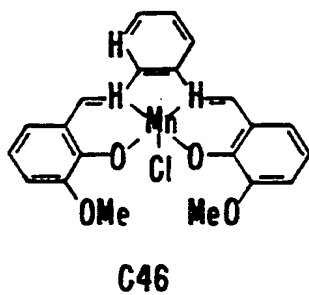
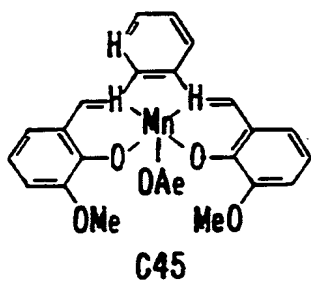
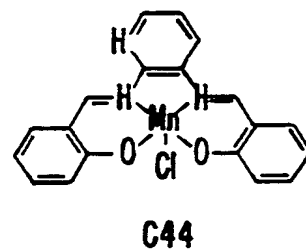
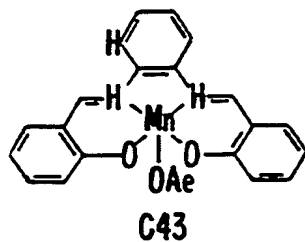
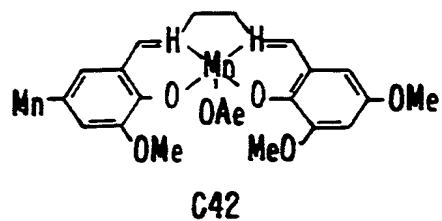


FIG. 19A.

15/38

COMPOUND	CATALASE RATE	CATALASE ENDPOINT	PEROXIDASE RATE	SOD ACTIVITY
C7/C31	1.0	1.0	1.0	1.0
C32	1.9	3.2	1.6	0.9
C42	2.1	3.0	1.7	1.3
C43	4.6	5.7	0.8	1.4
C44	4.3	7.7	0.4	ND
C45	5.7	10.4	0.2	ND
C46	7.4	12.9	0.2	ND
C47	3.3	4.8	0.9	ND
C48	5.4	9.8	0.8	ND
C49	1.5	4.4	1.6	ND
C50	1.4	2.3	1.5	ND
C51	0.4	0.4	0	ND
C52	0.6	0.3	0	ND

FIG. 19B.

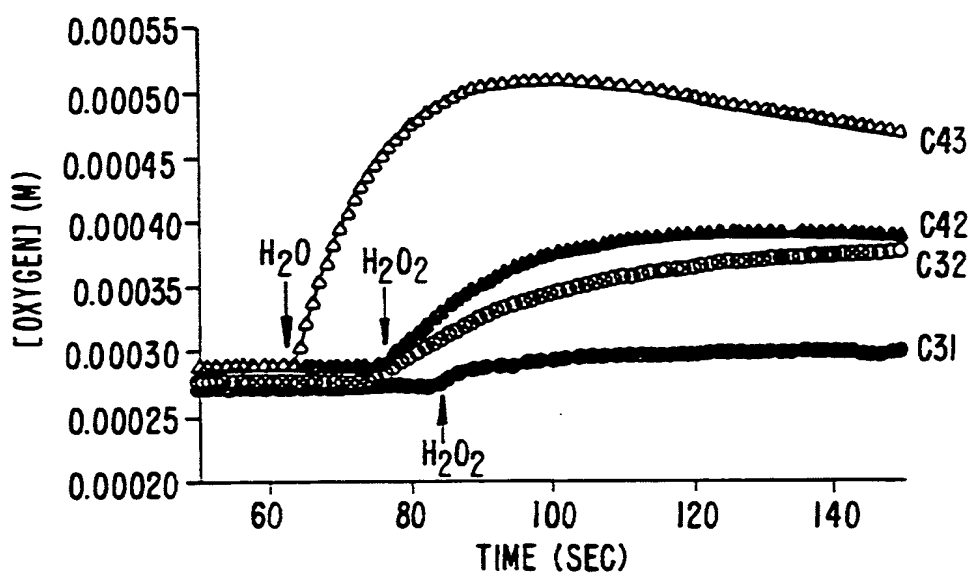


FIG. 20.

16/38

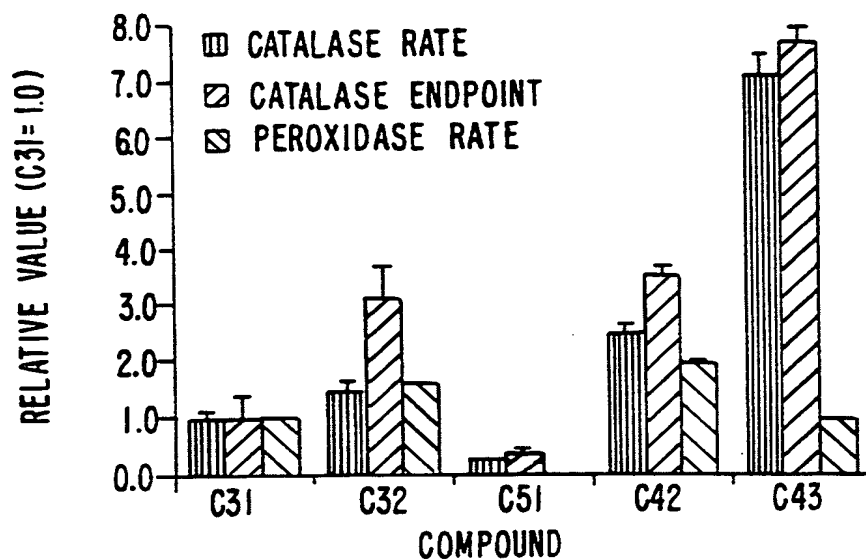


FIG. 21.

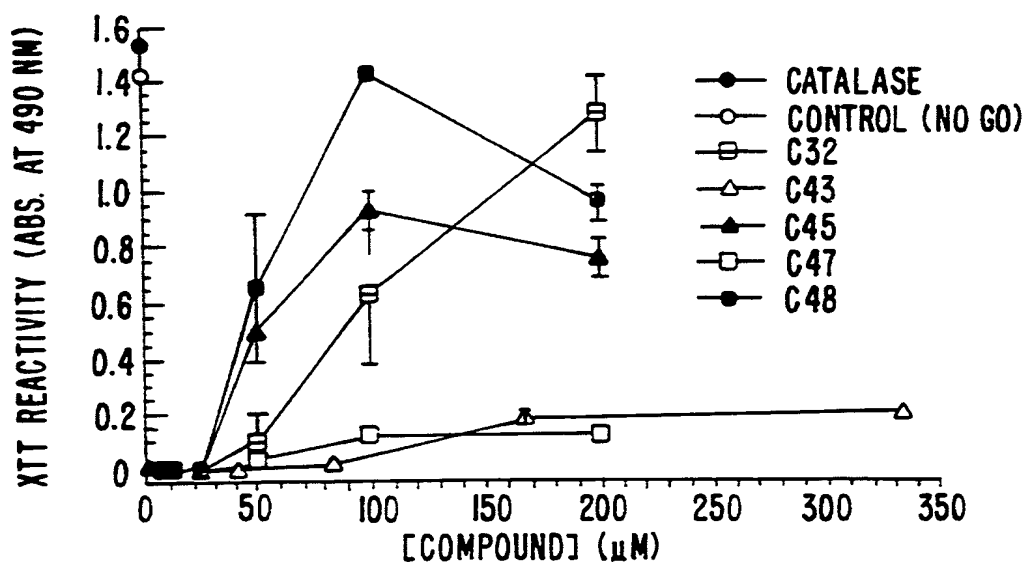


FIG. 22.




"BRIDGE"



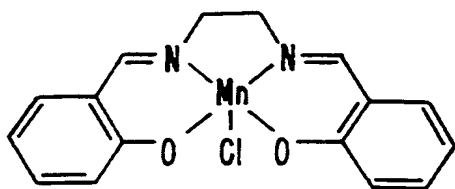
FIG. 23C.



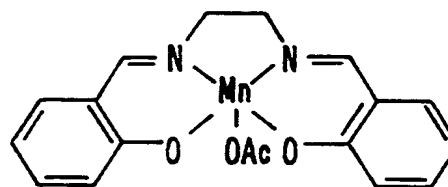
A  OUT OF PLANE

060307

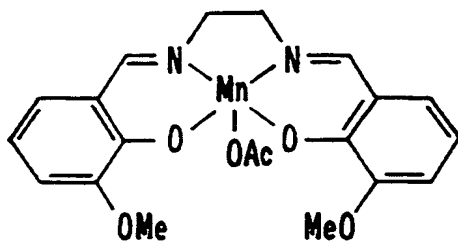
18/38



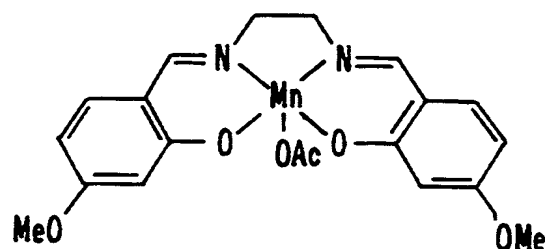
C7



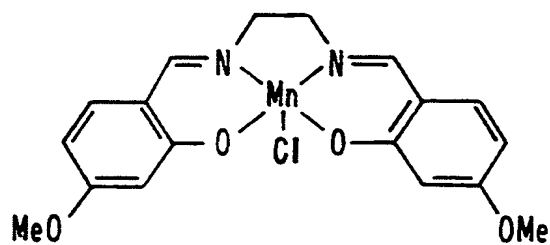
C31



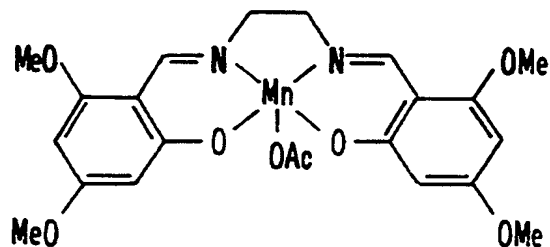
C32



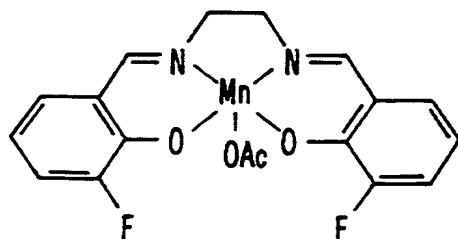
C33



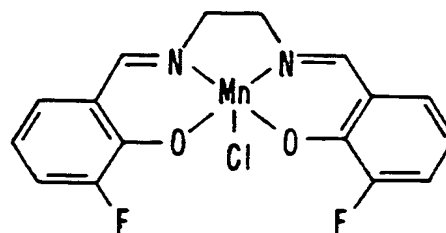
C34



C35



C36



C37

FIG. 24A.

19/38

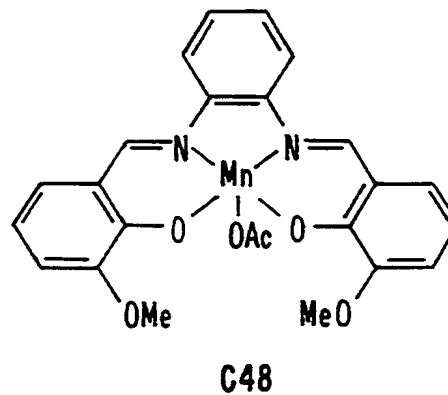
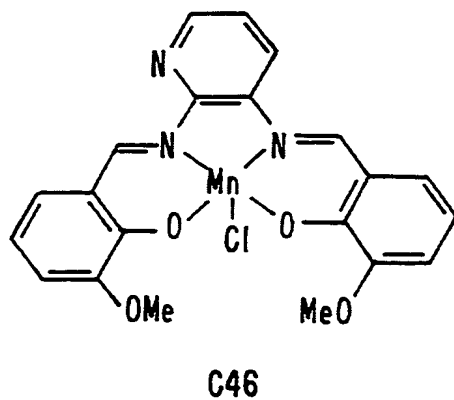
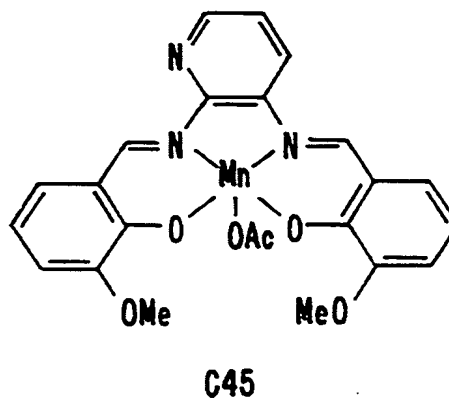
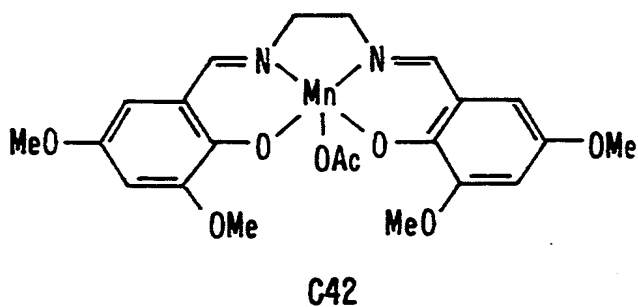
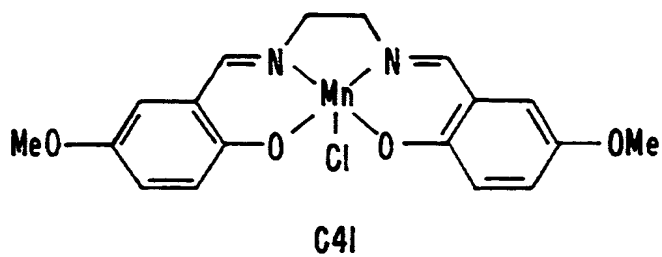
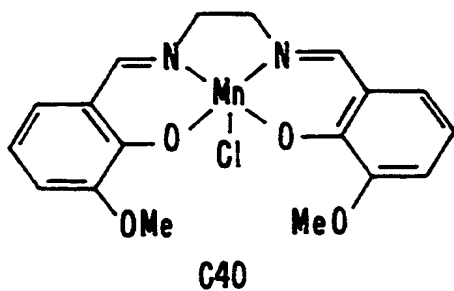
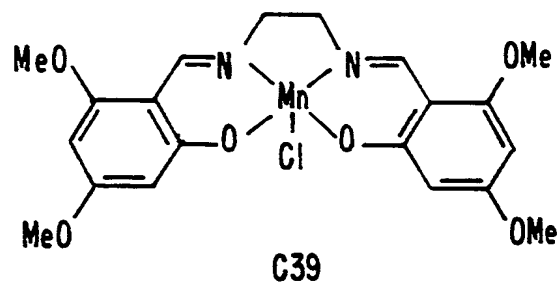
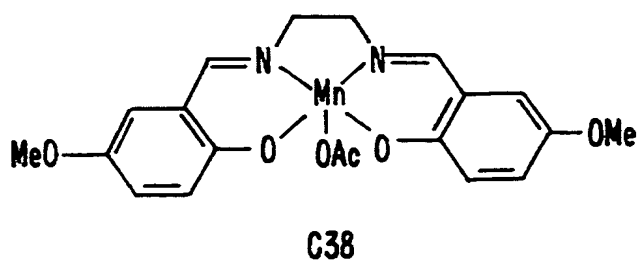
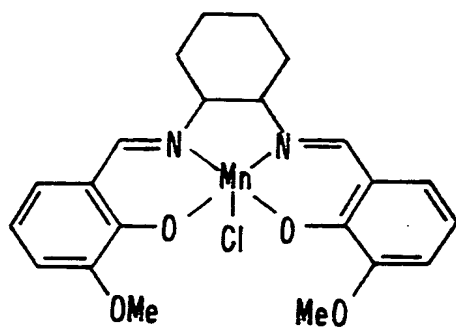
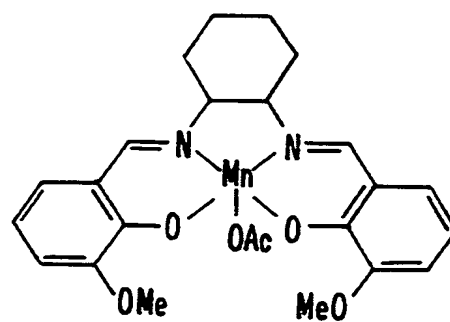


FIG. 24B.

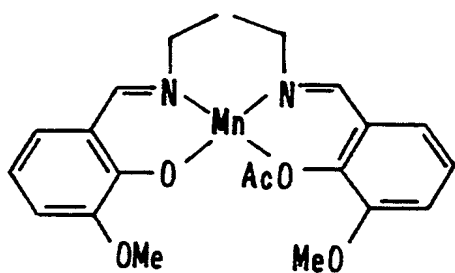
20/38



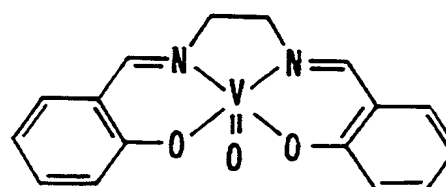
C49



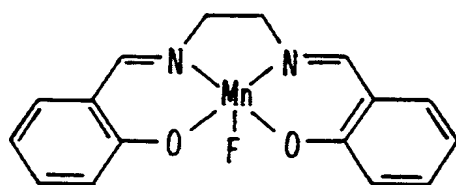
C50



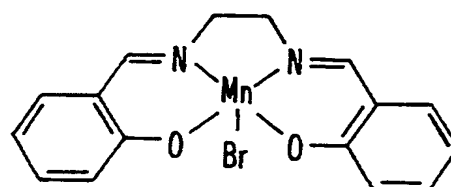
C51



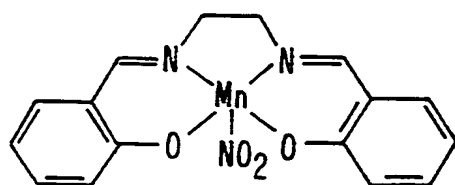
C53



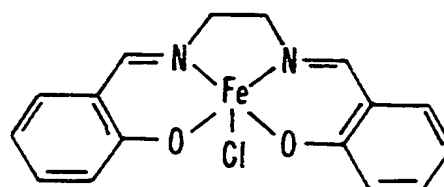
C54



C55



C56



C57

FIG. 24C.

21/38

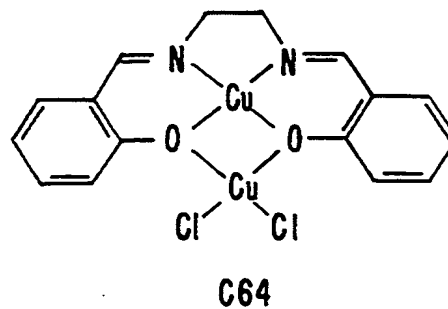
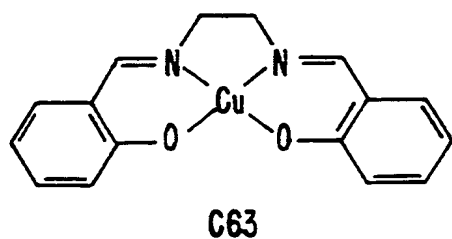
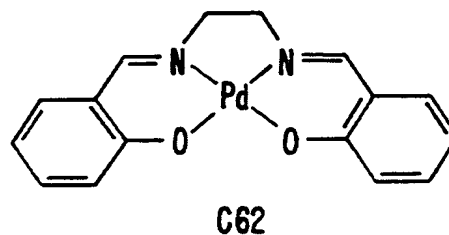
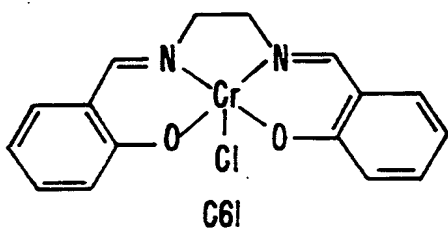
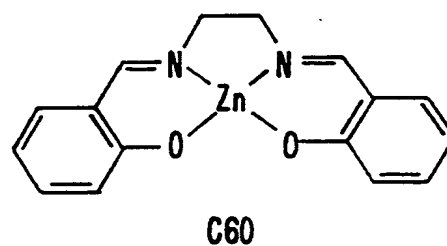
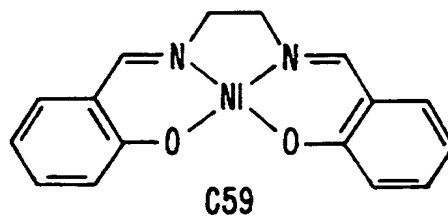
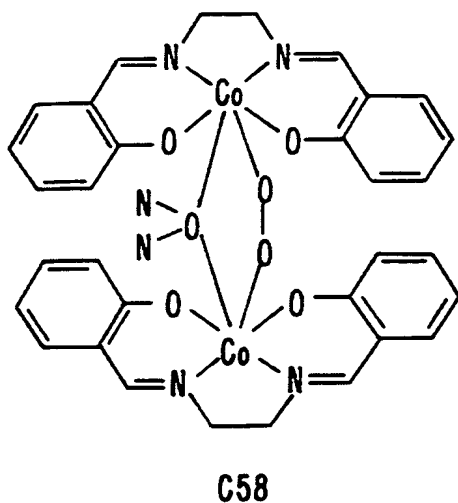
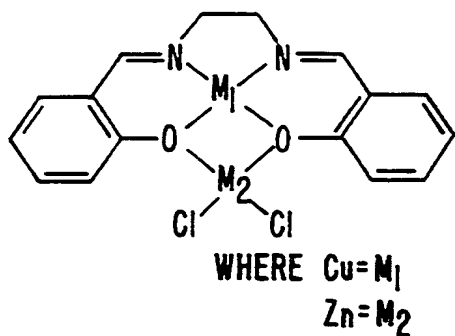
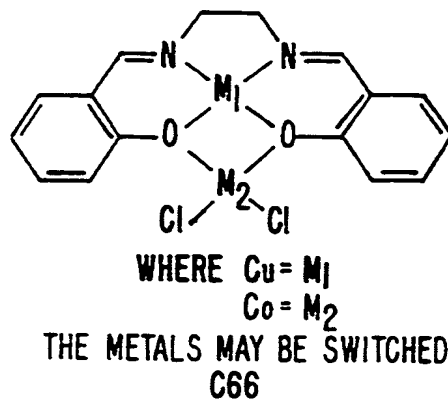


FIG. 24D.

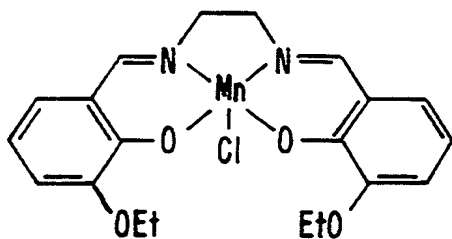
22/38



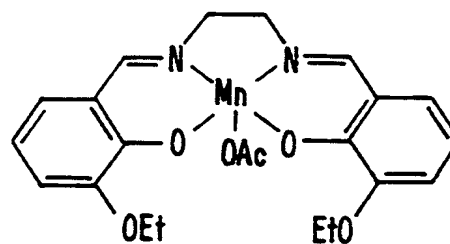
C65



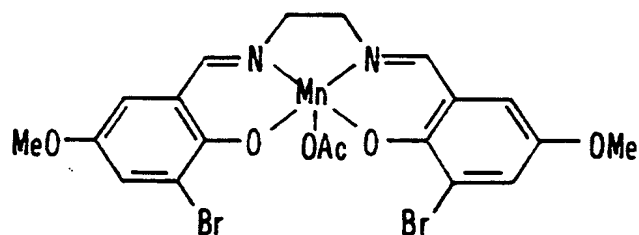
C66



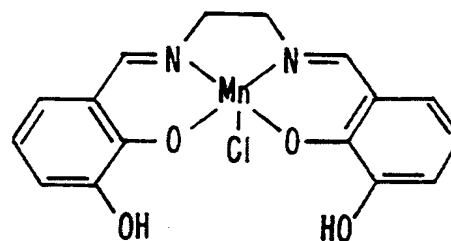
C67



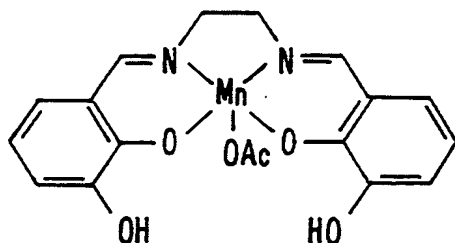
C68



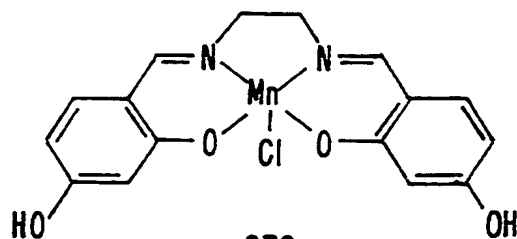
C69



C70



C71



C72

FIG. 24E.

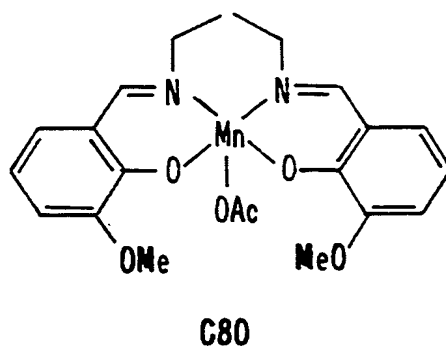
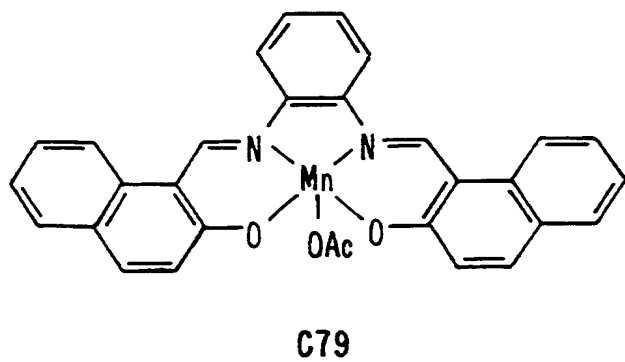
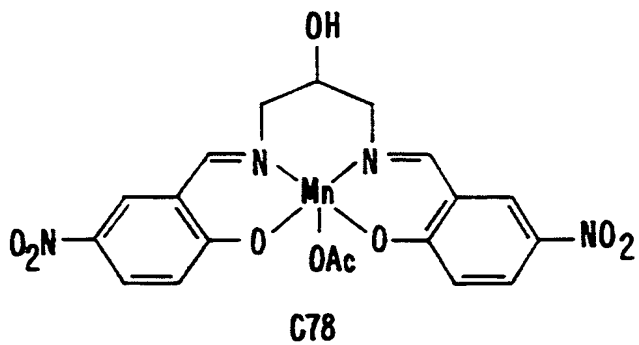
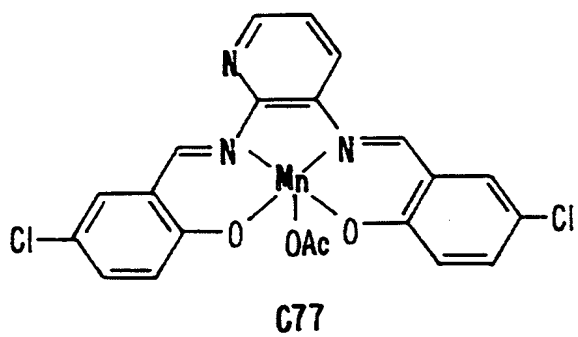
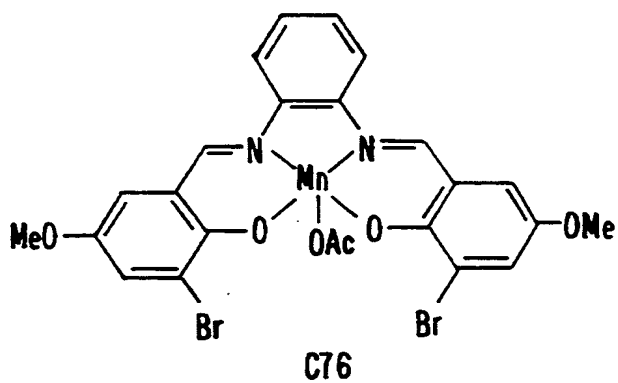
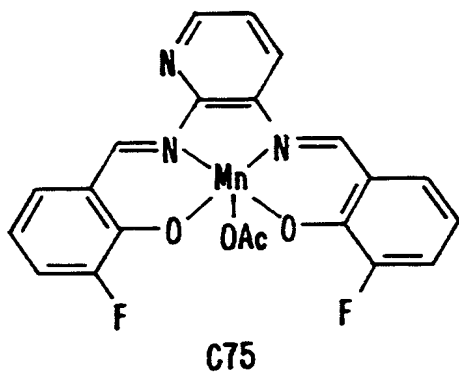
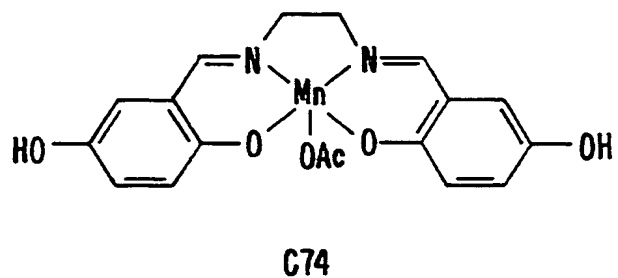
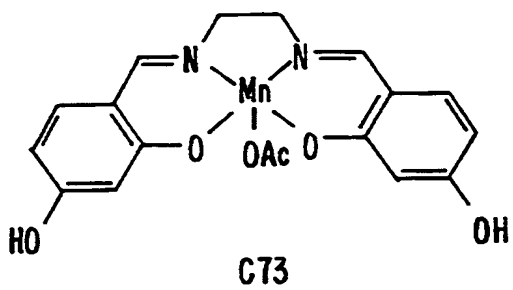
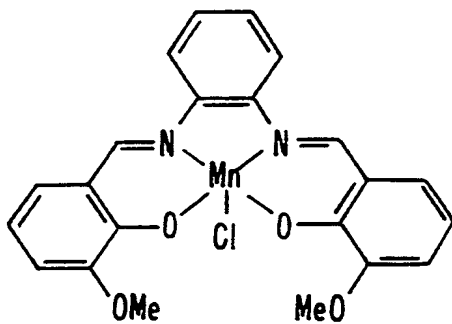


FIG. 24F.

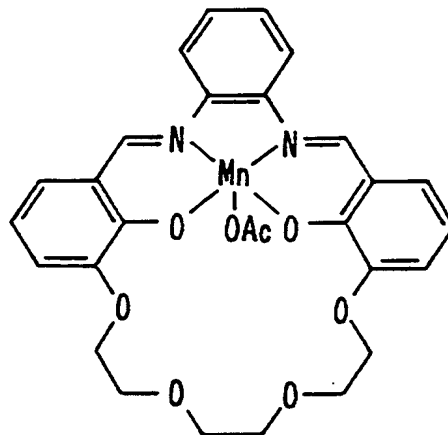
SUBSTITUTE SHEET (RULE 26)

090206Z APR 86 0303Z

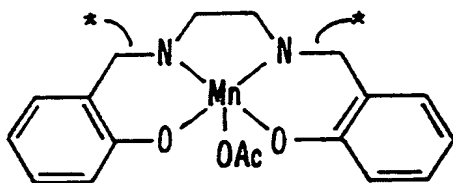
24/38



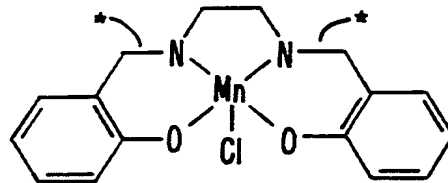
C81



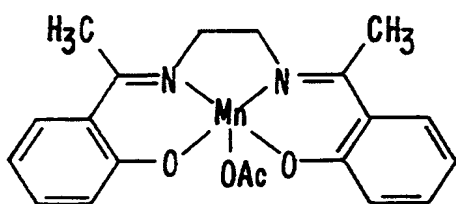
C82



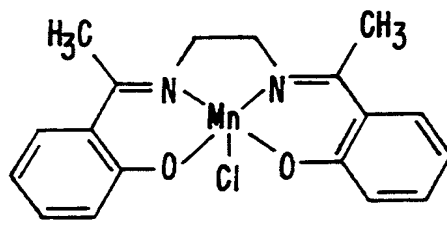
C83



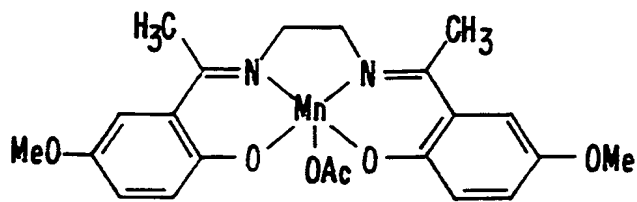
C84



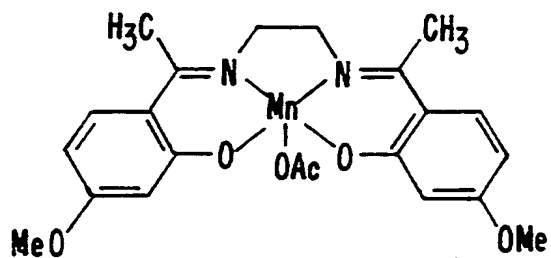
C85



C86



C87



C88

FIG. 24G.

SUBSTITUTE SHEET (RULE 26)

09090876-0303

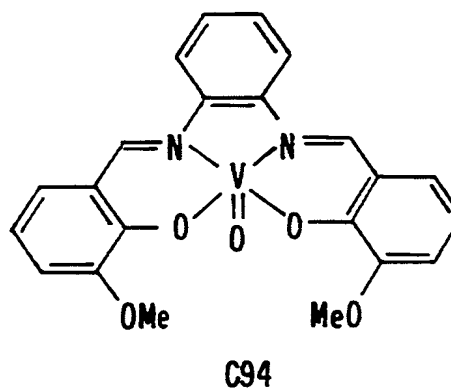
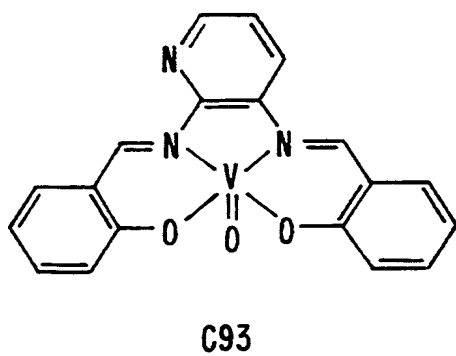
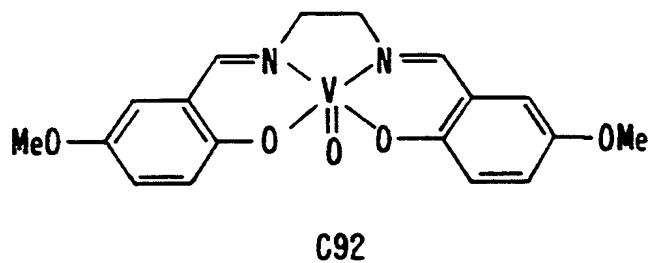
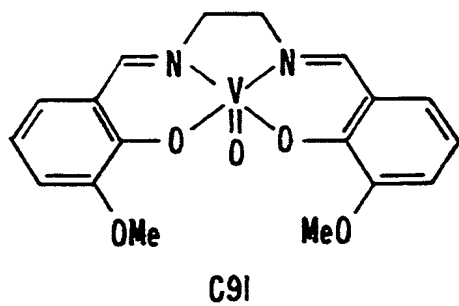
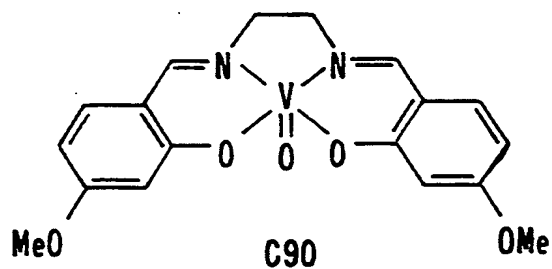
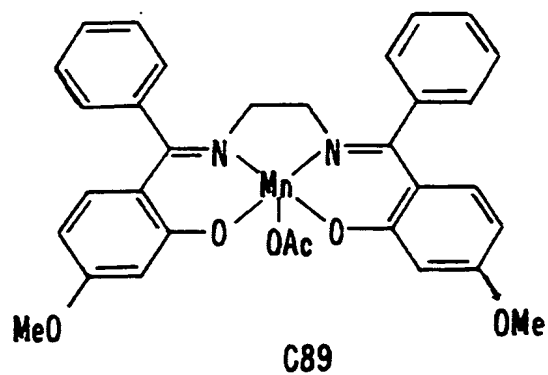


FIG. 24H.

[illegible]

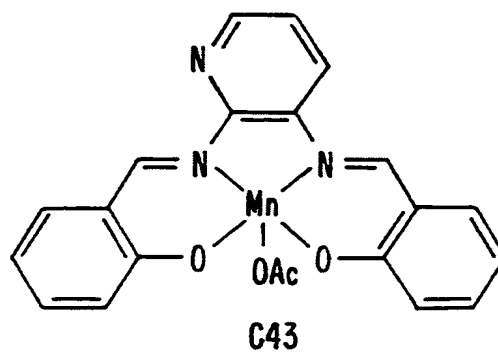
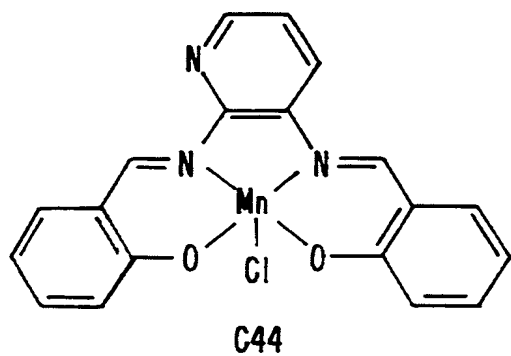
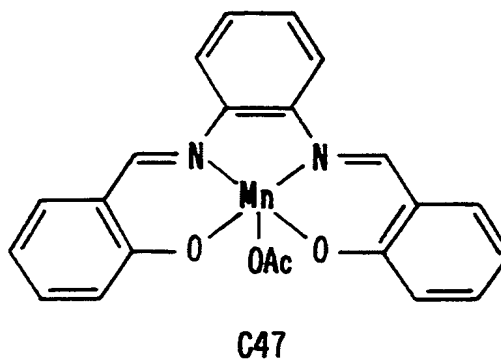
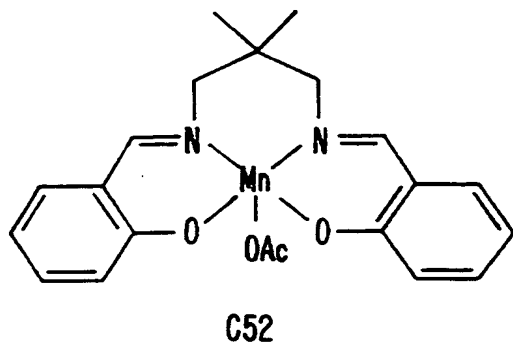


FIG. 24I.

27/38

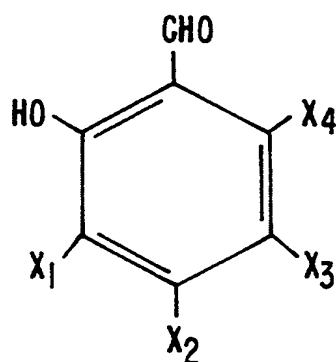


FIG. 25A.

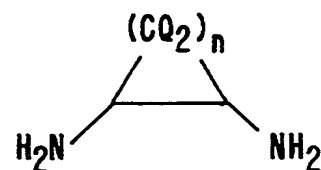
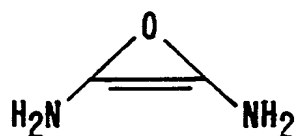
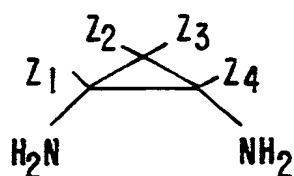
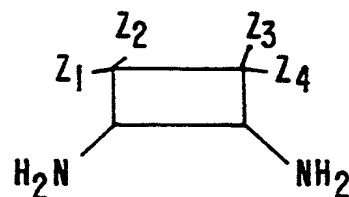
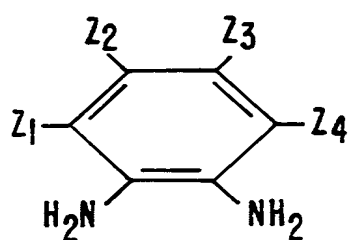
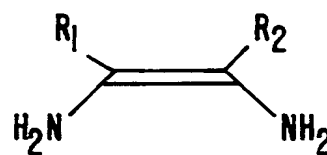
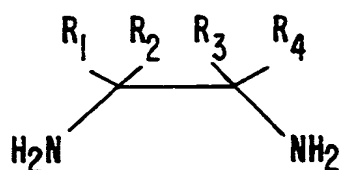
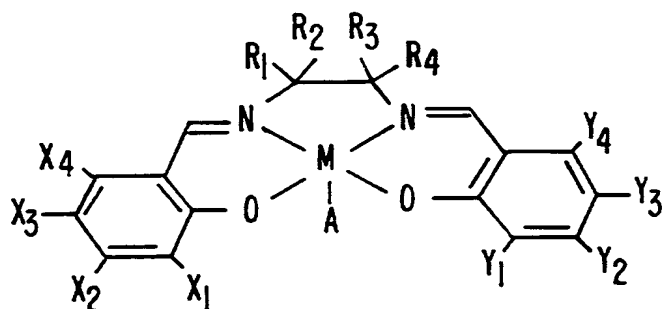


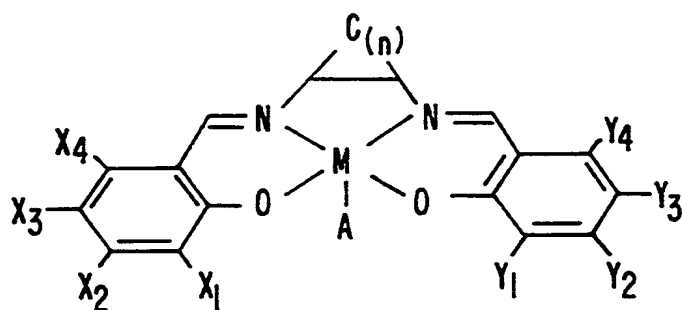
FIG. 25B.

28/38

STRUCTURE X



STRUCTURE XI



STRUCTURE XII

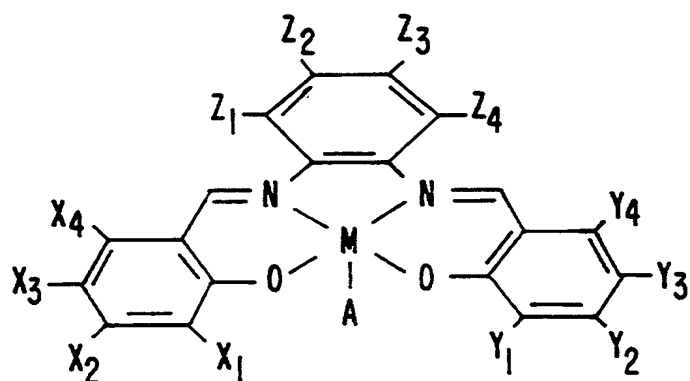


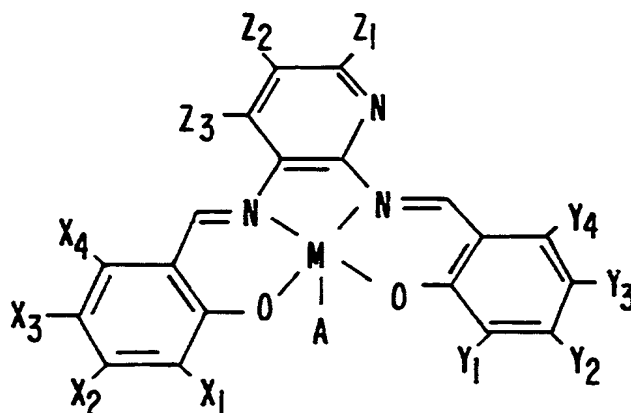
FIG. 26A.

SECRET

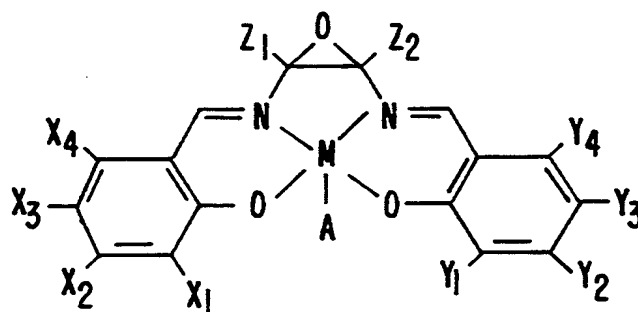
09/029686

29/38

STRUCTURE XIII



STRUCTURE XIV



STRUCTURE XV

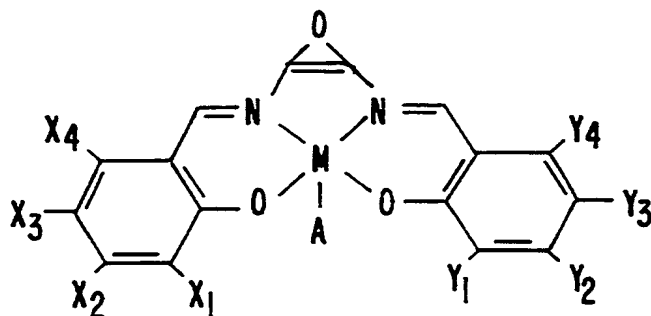
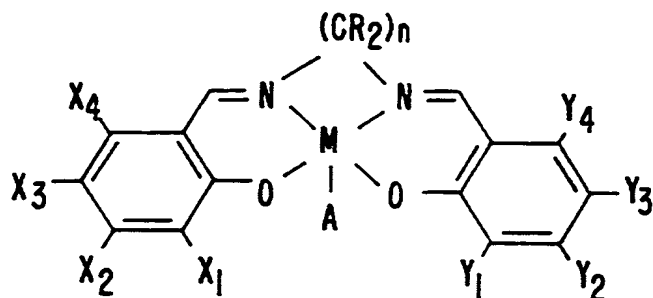
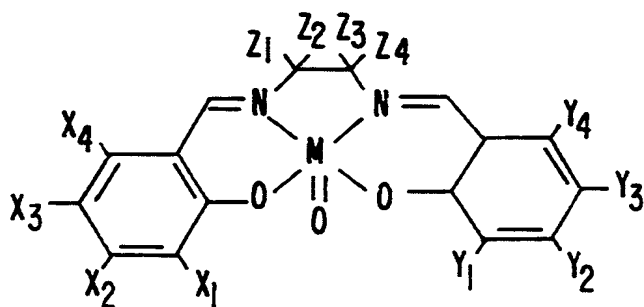


FIG. 26B.

STRUCTURE XVI



STRUCTURE XVII



STRUCTURE XVIII

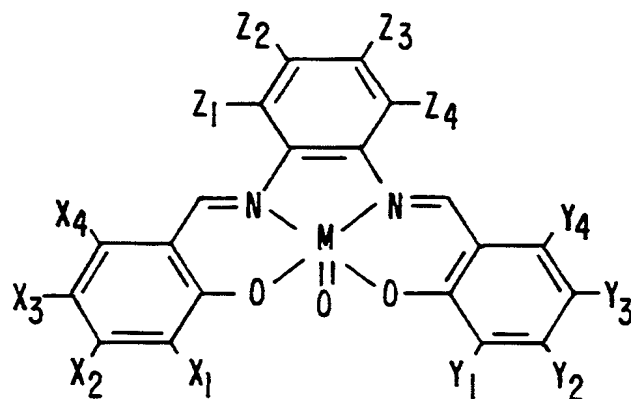
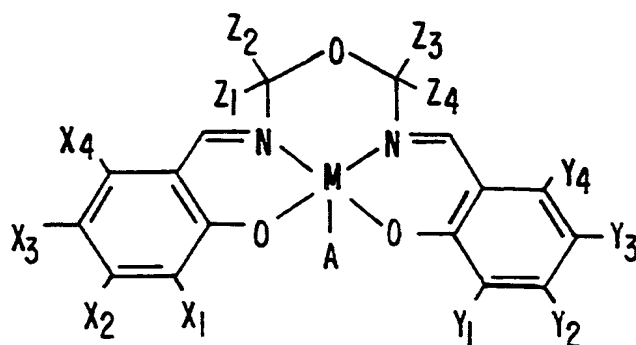


FIG. 26C.

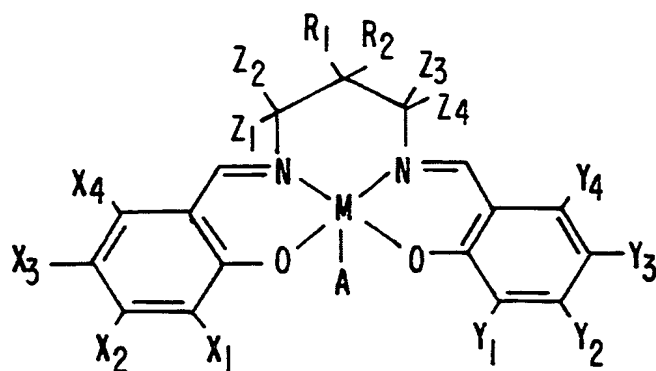
SECRET

31/38

STRUCTURE XIX



STRUCTURE XX



STRUCTURE XXI

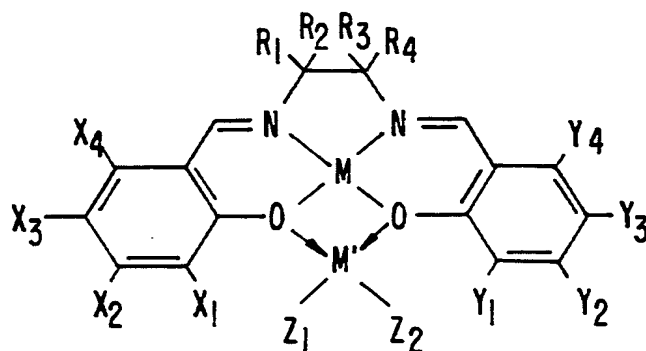
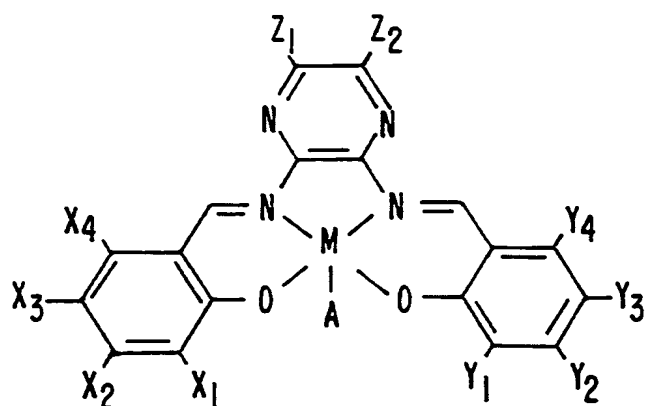


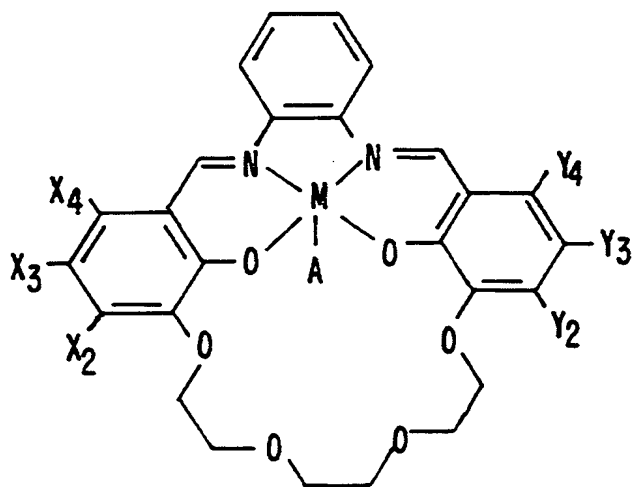
FIG. 26D.

32/38

STRUCTURE XXII



STRUCTURE XXIII



STRUCTURE XXIV

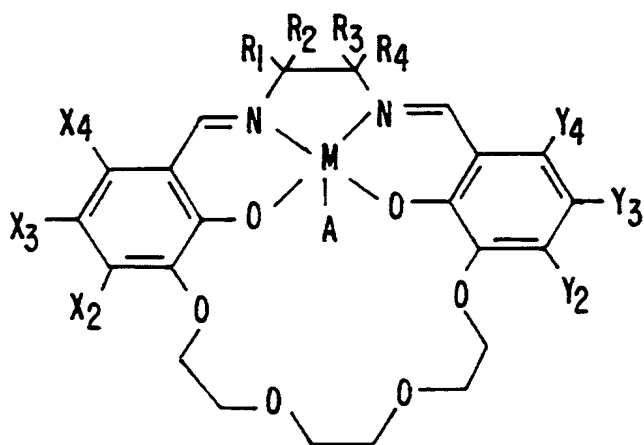


FIG. 26E.

090296860

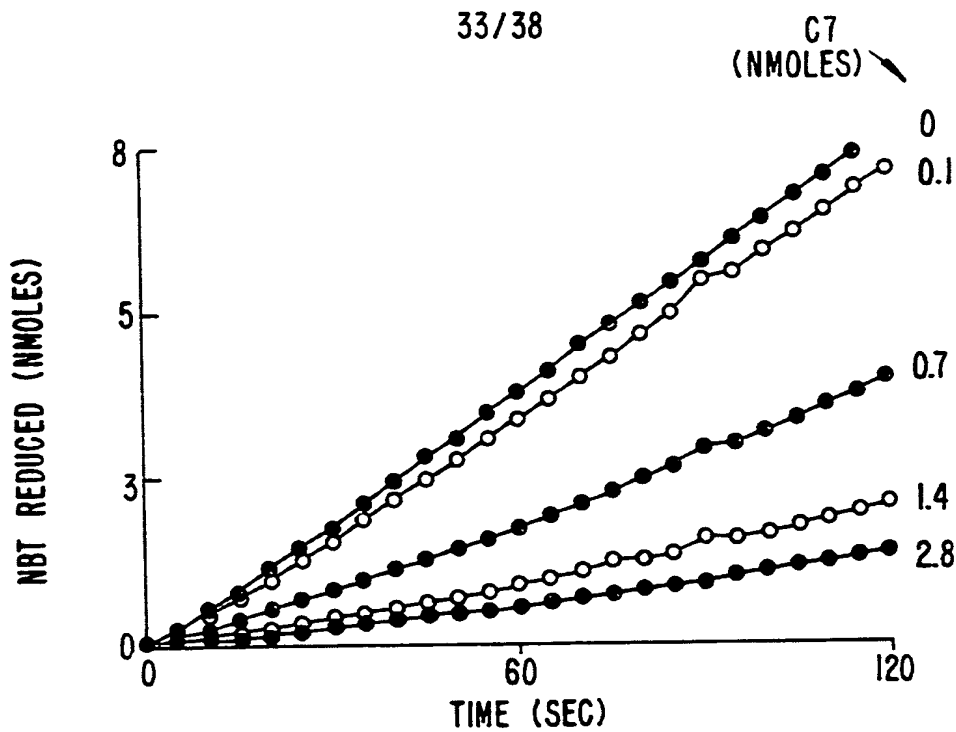


FIG. 27A.

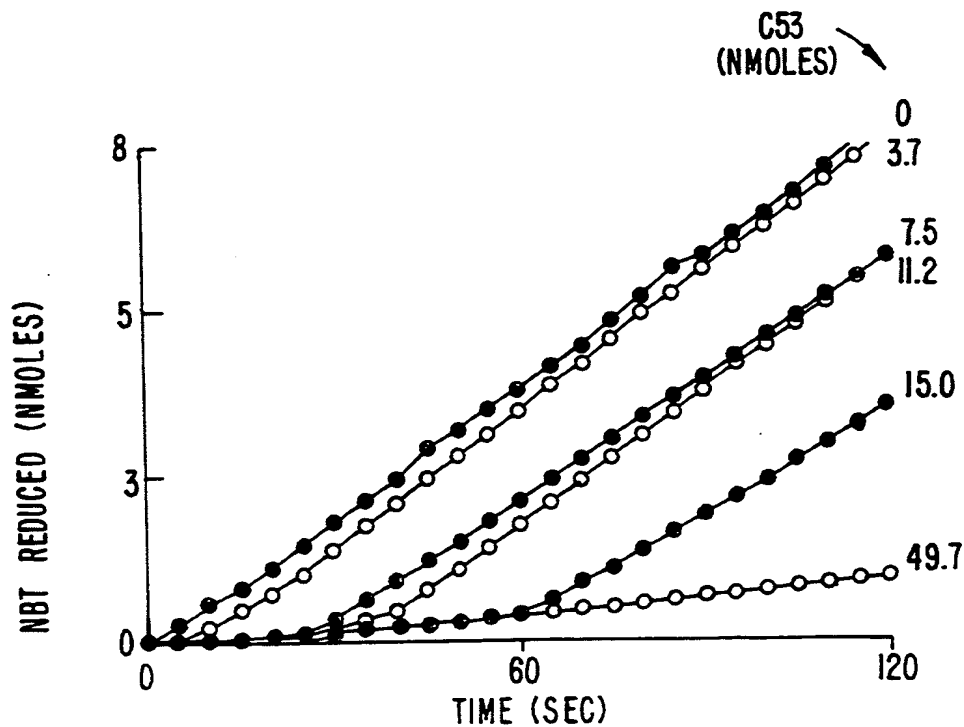


FIG. 27B.

09/029686

34/38

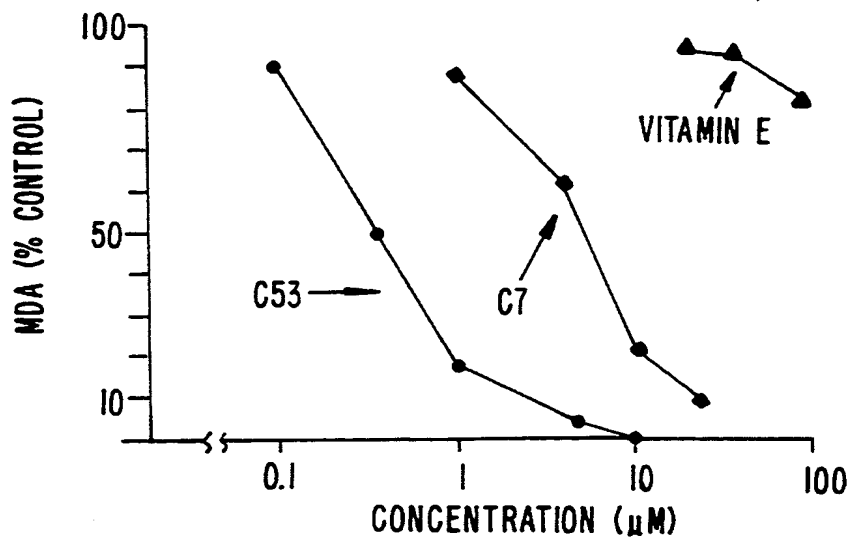


FIG. 28.

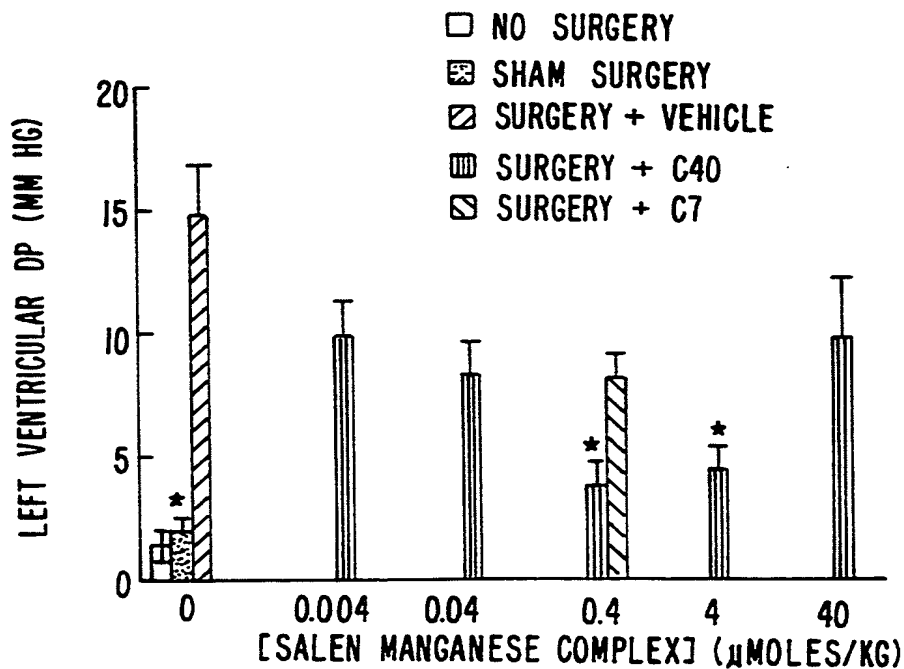
* = $p < 0.01$ VS VEHICLE

FIG. 29.

35/38

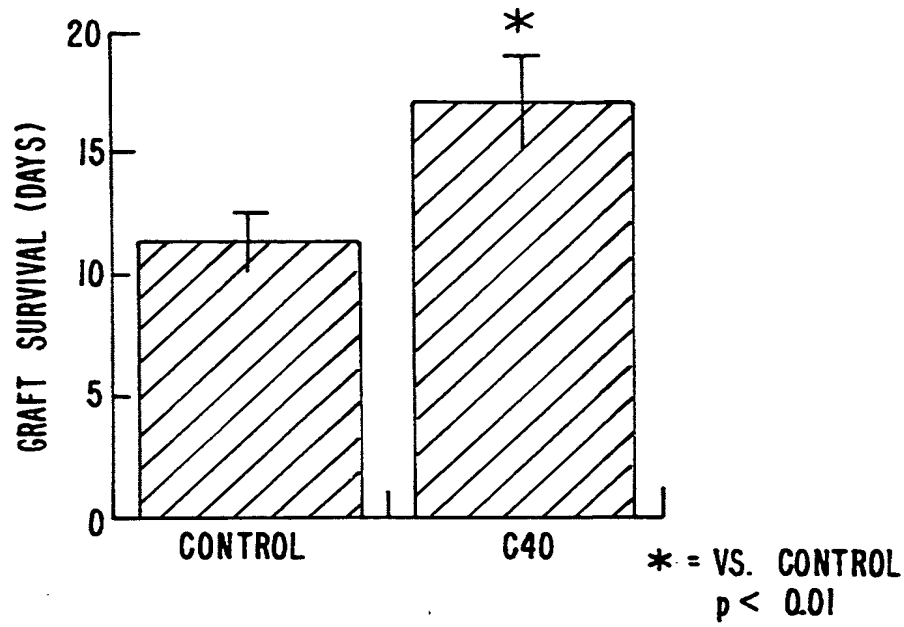
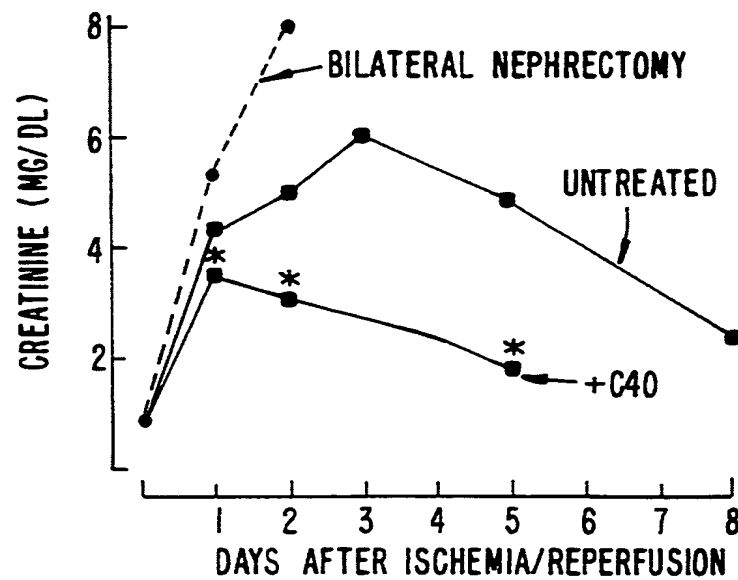


FIG. 30.



* = VS. UNTREATED
(p, 0.02)

FIG. 31.

36/38

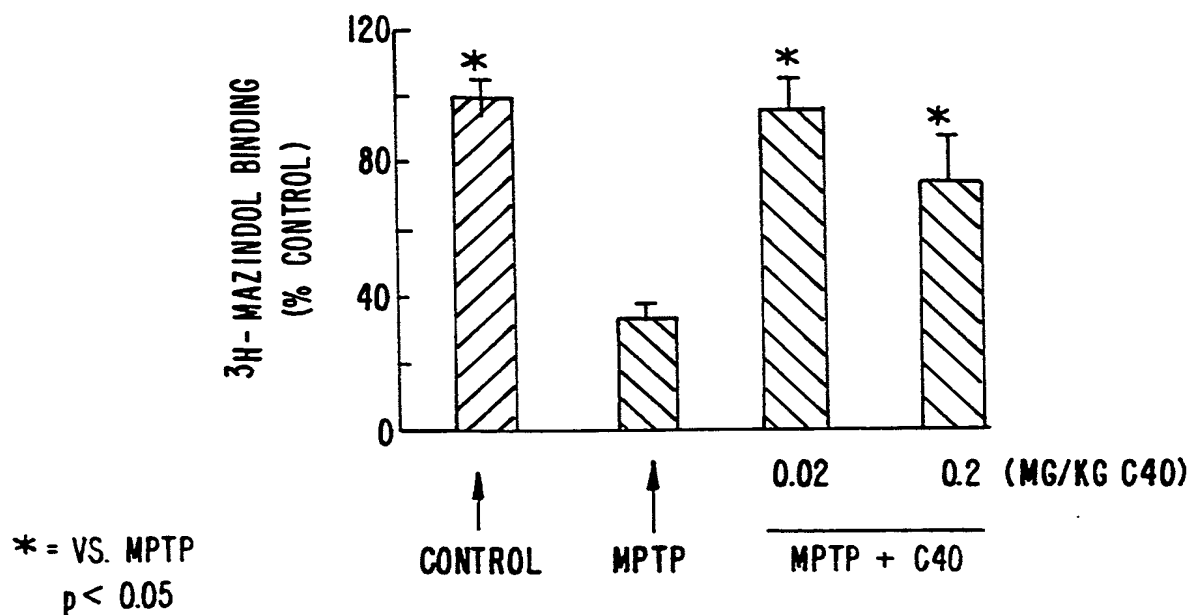


FIG. 32.

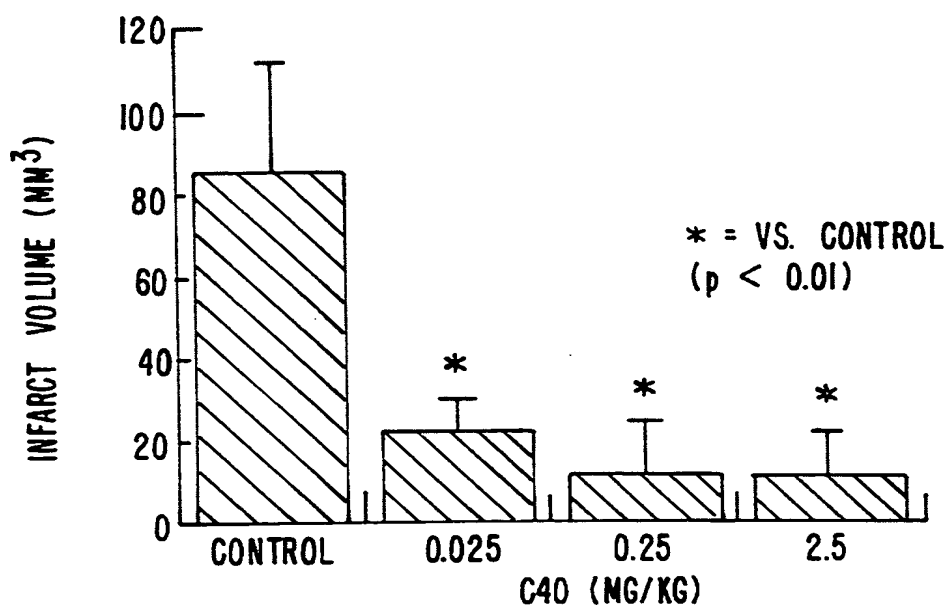


FIG. 33.

37/38

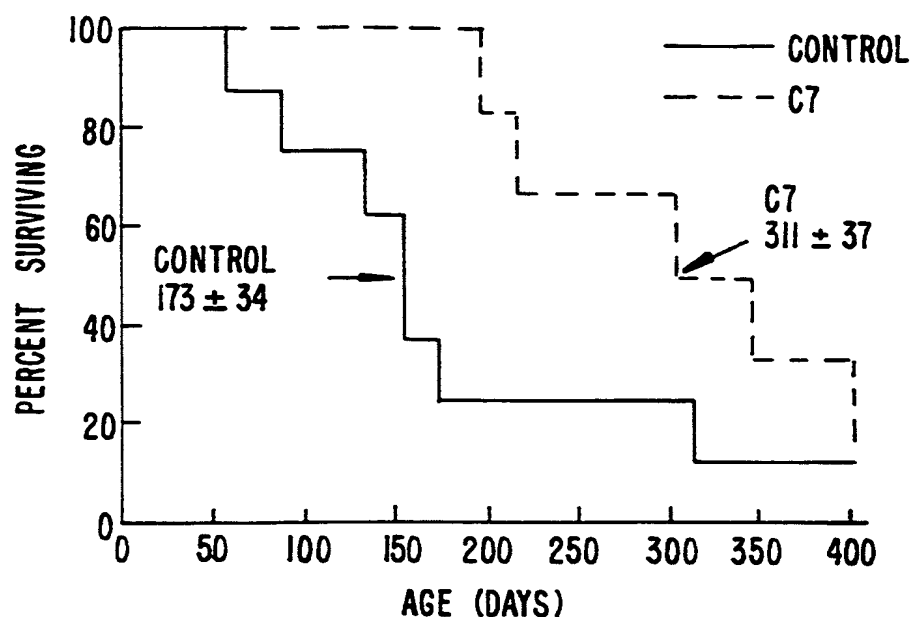


FIG. 35.

a = VS. VEHICLE CHALLENGE

b = VS. PRESENSITIZED + HAPTEN CHALLENGE

(p < 0.05) MEAN ± SD, n = 5

▨ VEHICLE CHALLENGE

▩ HAPTEN CHALLENGE

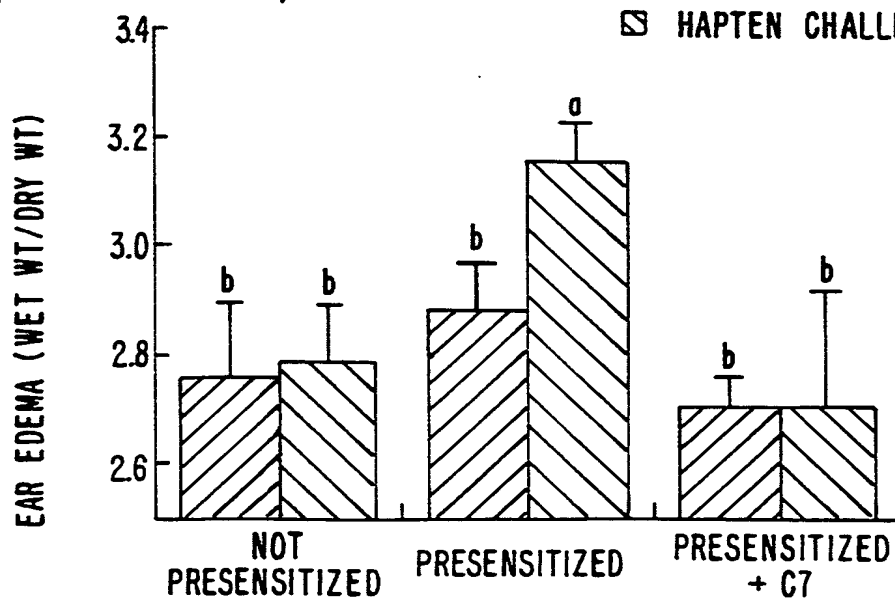


FIG. 34.

38/38

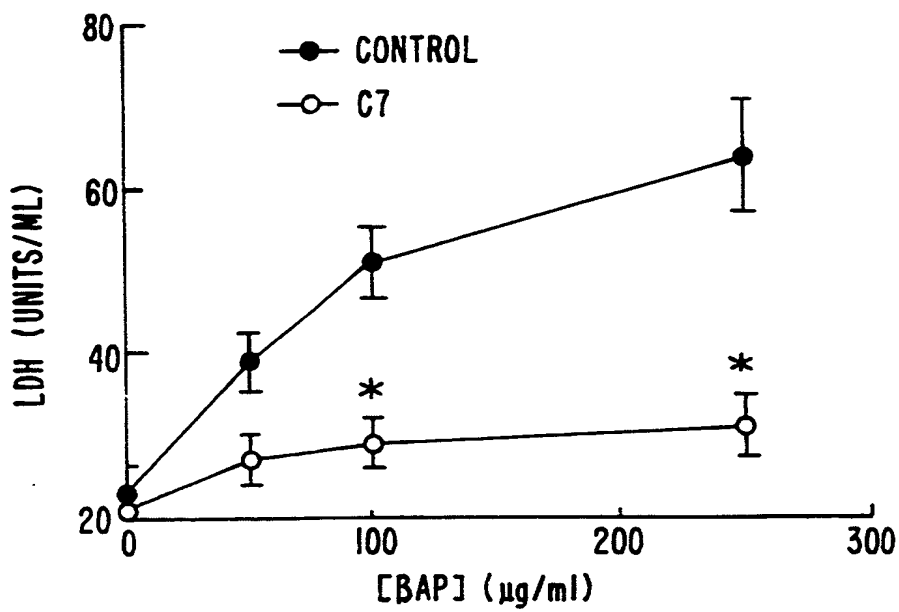


FIG. 36A.

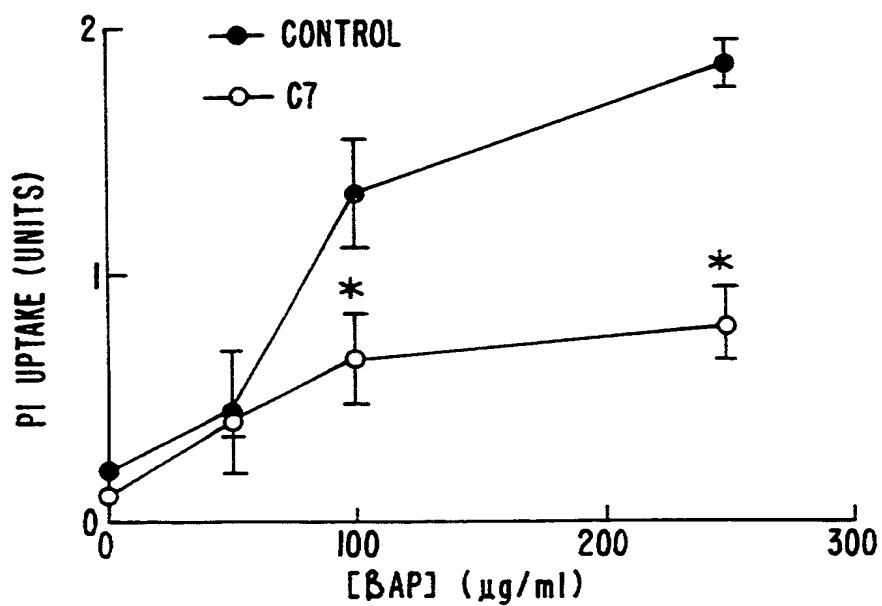


FIG. 36B.